10: Deconstruct Word Questions

Dato. 94/14/10000

Deconstructing Word Questions Year 6 Task Build-Up

me lickets cost £36 each



- More Than, Less Than
- **Money Transactions**
- <u>Multi-Step Multiplicative</u>
- **Scaling and Ratio**
- **Interpreting Remainders**
- **Missing Fraction**
- Fractions of a Quantity
- **Multi-Step Fractions**
- **Inverse**
- **Compare the Info**

Fixed Amount + Variable Amount

Multi-Step Measures

Hours and Minutes

Converting Units of Time

Area and Perimeter

Volume

Angle and Turn

Derive Coordinates

Interpreting Graphs

The Mean

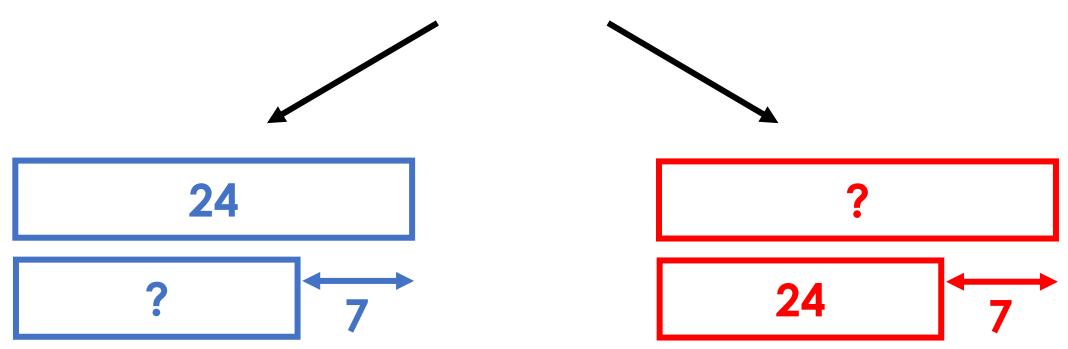


Becky collected 24 shells. Becky collected 7 shells fewer than Abby. **How many shells did Abby collect?**



Becky collected 24 shells. Becky collected 7 shells fewer than Abby. **How many shells did Abby collect?**

Which bar model represents the question?





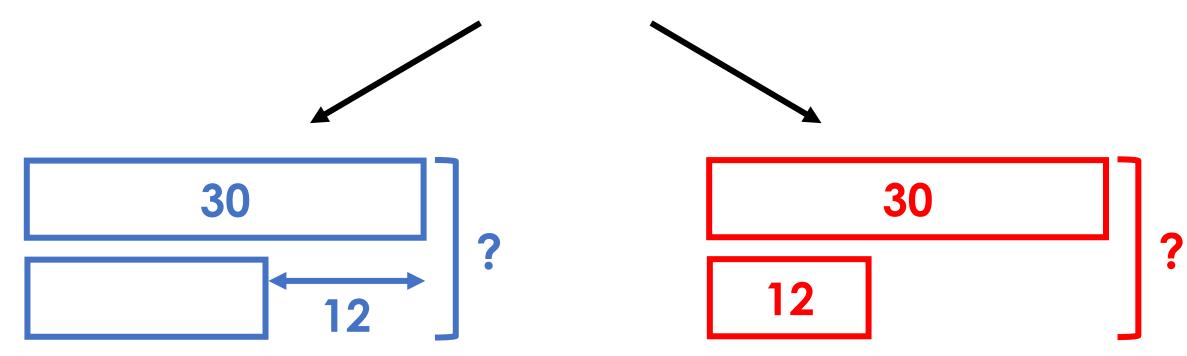
Mike has 30 stickers.

- Mike has 12 more stickers than James.
- How many stickers do they have in total?

Mike has 30 stickers.

- Mike has 12 more stickers than James.
- How many stickers do they have in total?

Which bar model represents the question?





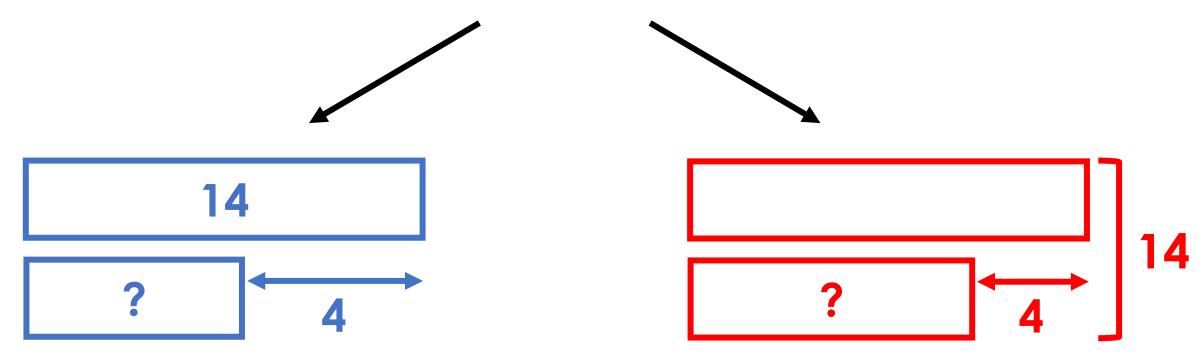
Sita and Holly have 14 grapes in total. Sita has 4 more grapes than Holly. **How many grapes does Holly have?**

Sita and Holly have 14 grapes in total.

Sita has 4 more grapes than Holly.

How many grapes does Holly have?

Which bar model represents the question?

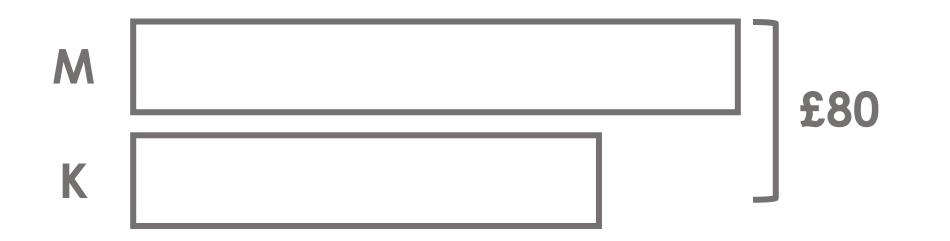




Mark and Karl have £80 in total. Mark has £10 more than Karl. **How much money does Mark have?**

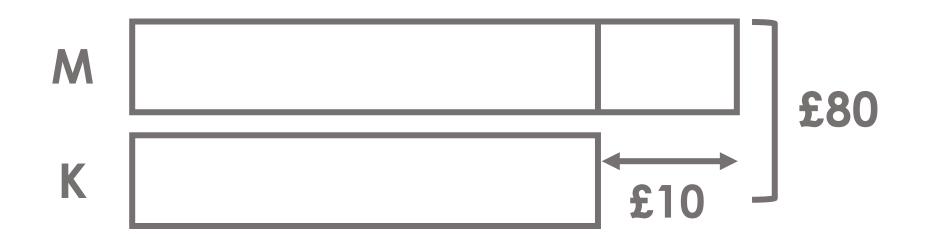


Mark and Karl have £80 in total. Mark has £10 more than Karl.





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Mark and Karl have £80 in total. Mark has £10 more than Karl.





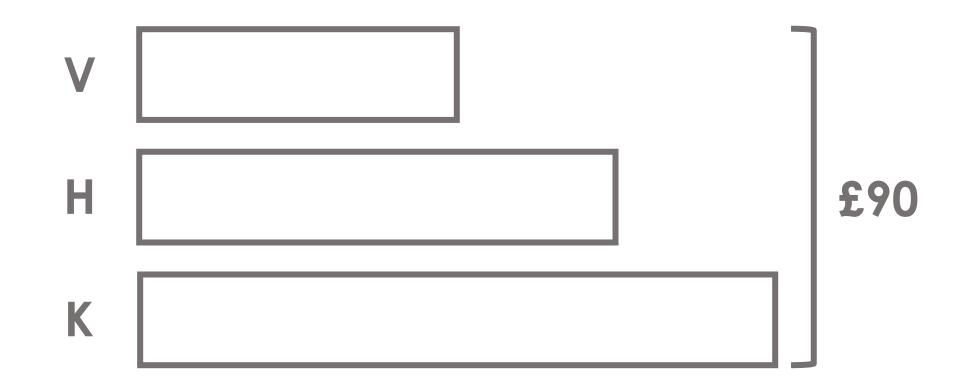
Val, Holly and Kara have £90 in total.
Val has £10 less than Holly.
Holly has £10 less than Kara.
How much money does Val have?



Val, Holly and Kara have £90 in total.

Val has $\pounds 10$ less than Holly.

Holly has £10 less than Kara.

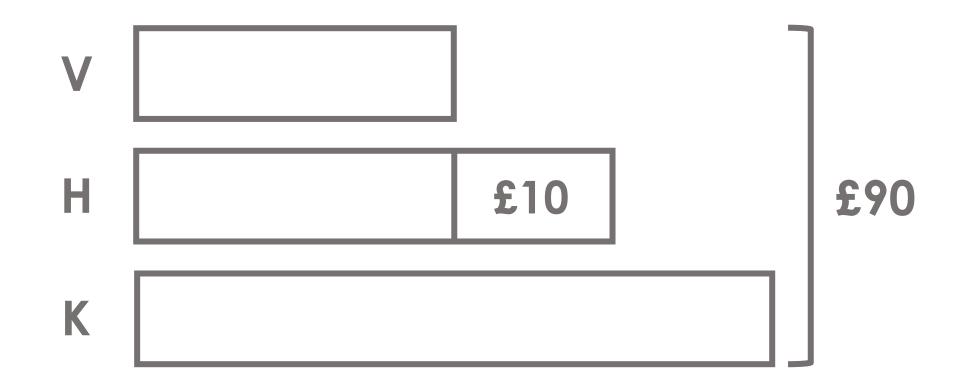




Val, Holly and Kara have £90 in total.

Val has $\pounds 10$ less than Holly.

Holly has £10 less than Kara.





Val, Holly and Kara have £90 in total.

Val has $\pounds 10$ less than Holly.

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Val, Holly and Kara have £90 in total.

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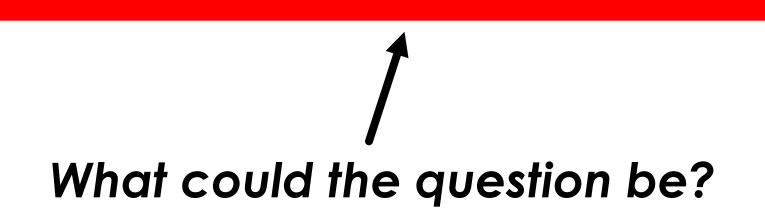
Holly has £10 less than Kara.





Swimming Pool Prices Adults: £6.50 Children: £3.50

Janet and her 3 children go swimming.





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Swimming Pool Prices Adults: £6.50 Children: £3.50

Janet and her 3 children go swimming.

She pays with a **£20** note.



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£20					
£6.50	£3.50	£3.50	£3.50		



Swimming Pool Prices Adults: £6.50 Children: £3.50

Janet and her 3 children go swimming.

She pays with a **£20** note.

£20						
£6.50	£3.50	£3.50	£3.50	£3		



Money Transactions missing information

missing question





£26

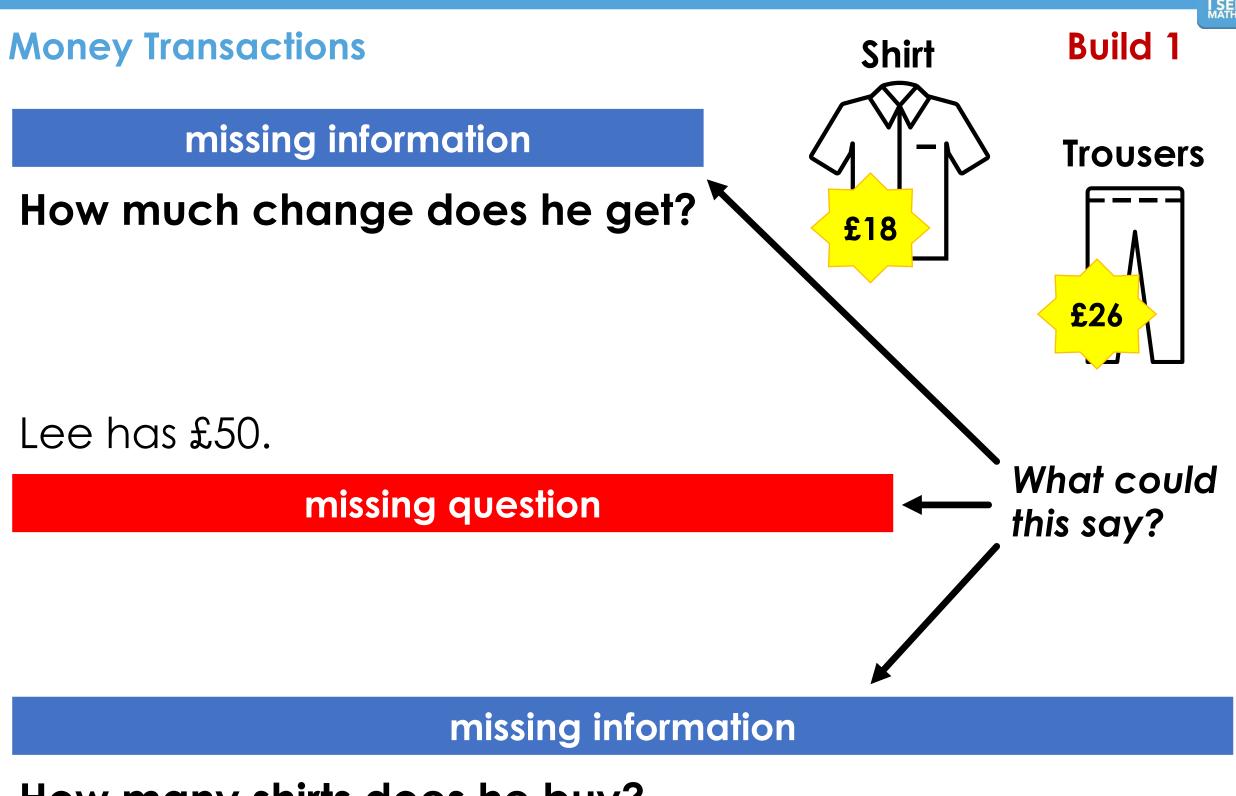
Build 1



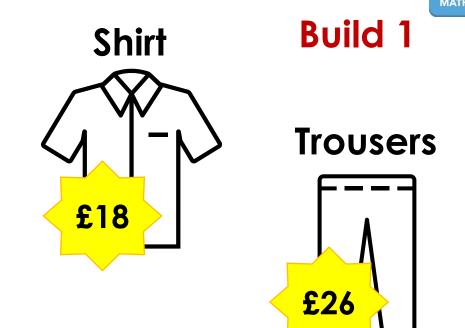
missing question

missing information

missing question



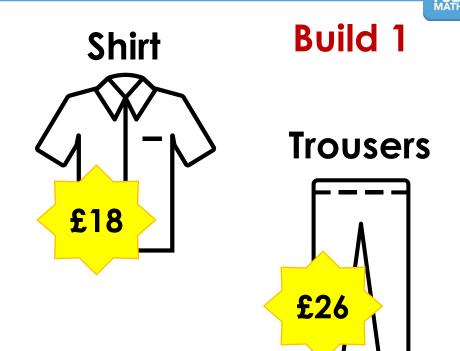
Nick has £40. He buys two shirts. **How much change does he get?**



Lee has £50.

missing question What could this say?

Nick has £40. He buys two shirts. **How much change does he get?** Answer: £4



Lee has £50.



Nick has £40. He buys two shirts. **How much change does he get?** Answer: £4 Shirt Build 1

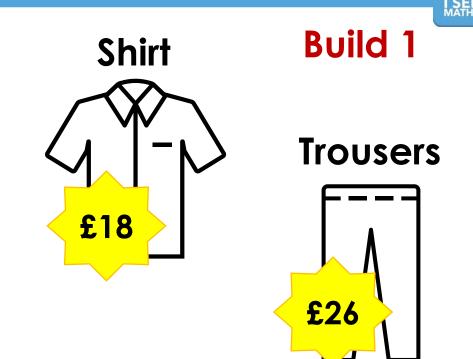
Lee has £50.

How many pairs of trousers can he afford?

What could this say?

missing information

Nick has £40. He buys two shirts. **How much change does he get?** *Answer: £4*

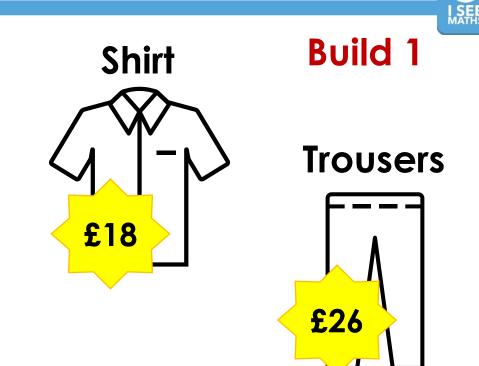


Lee has £50.

How many pairs of trousers can he afford? Answer: 1 pair What could this say?

missing information

Nick has £40. He buys two shirts. **How much change does he get?** Answer: £4

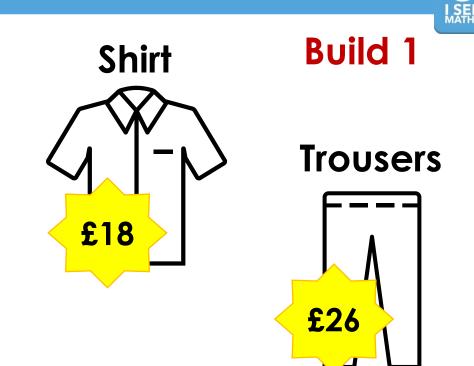


Lee has £50.

How many pairs of trousers can he afford? Answer: 1 pair

Max buys a pair of trousers and some shirts. He spends £80. **How many shirts does he buy?**

Nick has £40. He buys two shirts. **How much change does he get?** Answer: £4



Lee has £50.

How many pairs of trousers can he afford? Answer: 1 pair

Max buys a pair of trousers and some shirts. He spends £80.

How many shirts does he buy?

Answer: 3 shirts



Build 1

Multi-Step Multiplicative

Lee has a 2 year-old son called Harvey.

Lee is **twice as tall** and **five times as heavy** as Harvey.

One-Step Question

Multi-Step Question

What could the questions be?



Multi-Step Multiplicative

Lee has a 2 year-old son called Harvey.

Lee is **twice as tall** and **five times as heavy** as Harvey.

Lee is 170cm tall. How tall is Harvey?

Multi-Step Question



Build 1

Multi-Step Multiplicative

Lee has a 2 year-old son called Harvey.

Lee is **twice as tall** and **five times as heavy** as Harvey.

Lee is 170cm tall. How tall is Harvey? = 85cm

Multi-Step Question



Build¹

Lee has a 2 year-old son called Harvey.

Lee is **twice as tall** and **five times as heavy** as Harvey.

Lee is 170cm tall. How tall is Harvey? = 85cm

Harvey weighs 14kg. How much heavier is Lee than Harvey?



Build¹

Lee has a 2 year-old son called Harvey.

Lee is **twice as tall** and **five times as heavy** as Harvey.

Lee is 170cm tall. How tall is Harvey? = 85cm

Harvey weighs 14kg. How much heavier is Lee than Harvey?

Step 1: Lee's weight is $14kg \times 5 = 70kg$



Build¹

Lee has a 2 year-old son called Harvey.

Lee is **twice as tall** and **five times as heavy** as Harvey.

Lee is 170cm tall. How tall is Harvey? = 85cm

Harvey weighs 14kg. How much heavier is Lee than Harvey?

Step 1: Lee's weight is 14kg × 5 = 70kg
Step 2: The difference is 70kg - 14kg = 56kg



Build 1

Zack gets to work either by cycling or driving.

It takes Zack 3 times as long to get to work when he cycles.

Multi-Step Question

What could the question be?



Build 1

Zack gets to work either by cycling or driving.

It takes Zack 3 times as long to get to work when he cycles.

How much longer does it take Zack to cycle to work than to drive?



Build 1

Zack gets to work either by cycling or driving.

It takes Zack 3 times as long to get to work when he cycles.

How much longer does it take Zack to cycle to work than to drive?

What information must be given?



Zack gets to work either by cycling or driving.

- It takes Zack 3 times as long to get to work when he cycles.
- It takes Zack **20 minutes** to drive to work.
- How much longer does it take Zack to cycle to work than to drive?



Zack gets to work either by cycling or driving.

It takes Zack 3 times as long to get to work when he cycles.

It takes Zack 20 minutes to drive to work.

How much longer does it take Zack to cycle to work than to drive?

Step 1: Zack's cycle takes 20 × 3 = 60 minutes



Zack gets to work either by cycling or driving.

It takes Zack 3 times as long to get to work when he cycles.

It takes Zack 20 minutes to drive to work.

How much longer does it take Zack to cycle to work than to drive?

Step 1: Zack's cycle takes $20 \times 3 = 60$ minutes Step 2: The difference is 60 - 20 = 40 minutes





A choir is holding a concert for charity.

Adult tickets cost **£12**. Child tickets cost **£7**.

How much money is raised?

What information must be given?



A choir is holding a concert for charity.

- Adult tickets cost **£12**. Child tickets cost **£7**.
- 130 adult tickets and 70 child tickets are sold.
- How much money is raised?

A choir is holding a concert for charity.

- Adult tickets cost **£12**. Child tickets cost **£7**.
- 130 adult tickets and 70 child tickets are sold.
- How much money is raised?

 $130 \times \pounds 12 = \pounds 1560$ $70 \times \pounds 7 = \pounds 490 \qquad \pounds 1560 + \pounds 490 = \pounds 2050$





A circus is holding a concert for charity.

Adult tickets cost **£11**. Child tickets cost **£6**.

How many child tickets are sold?

What information must be given?

A circus is holding a concert for charity.

- Adult tickets cost **£11**. Child tickets cost **£6**.
- 120 adult tickets are sold. In total, £1800 is raised.
- How many child tickets are sold?

A circus is holding a concert for charity.

- Adult tickets cost **£11**. Child tickets cost **£6**.
- 120 adult tickets are sold. In total, £1800 is raised.
- How many child tickets are sold?

 $120 \times \pounds11 = \pounds1320$ $\pounds1800 - \pounds1320 = \pounds480$

£480 ÷ 6 = <u>80 child tickets</u>



Build 1



Max has 3 times as many conkers as Ben.

How many conkers does Ben have?



Max has **3** times as many conkers as Ben. Altogether, they have **12** conkers. **How many conkers does Ben have?**



Max has **3** times as many conkers as Ben. Altogether, they have **12** conkers. **How many conkers does Ben have?**

Which picture represents the question?





- For every **3** seeds that were planted, **1** seed grew.
- 60 seeds were planted.
- How many seeds grew?

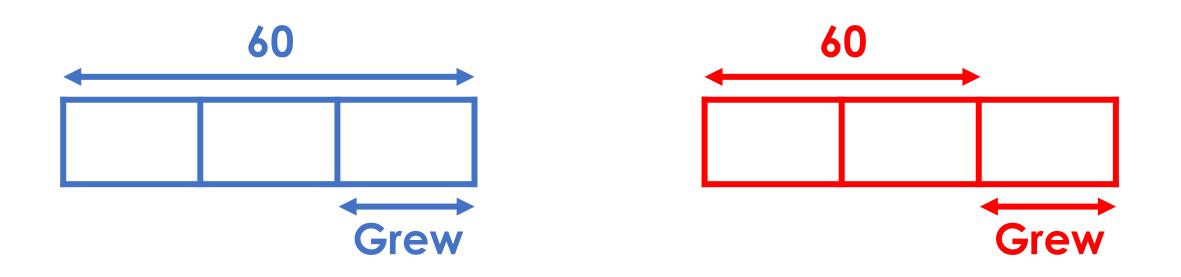


For every **3** seeds that were planted, **1** seed grew.

60 seeds were planted.

How many seeds grew?

Which picture represents the question?





There are **3** times as many children as adults at the park.

How many adults at the park?

What information could be hidden?



There are **3** times as many children as adults at the park.

There are more children than adults at the park.



There are **3** times as many children as adults at the park.

There are more children than adults at the park.

How many adults at the park?

What could the missing number be? What number could the missing number not be?



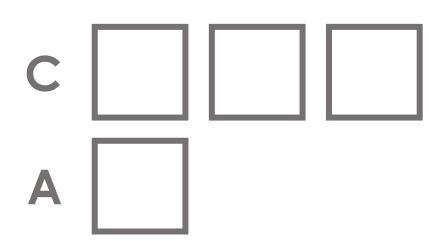
There are **3** times as many children as adults at the park.

There are **18** more children than adults at the park.



There are **3** times as many children as adults at the park.

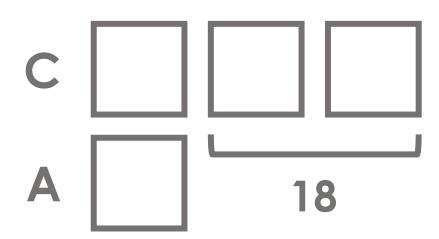
There are **18** more children than adults at the park.





There are **3** times as many children as adults at the park.

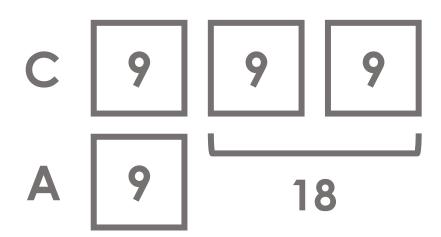
There are **18** more children than adults at the park.





There are **3** times as many children as adults at the park.

There are **18** more children than adults at the park.

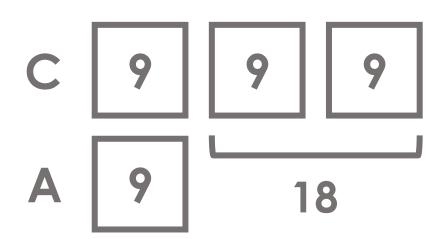




There are **3** times as many children as adults at the park.

There are **18** more children than adults at the park.

How many adults at the park?



9 adults



Scaling and Ratio

There were **twice** as many children as adults in the swimming pool.

Then, 6 adults got in the pool.

How many children are there in the swimming pool?

What information could be hidden?



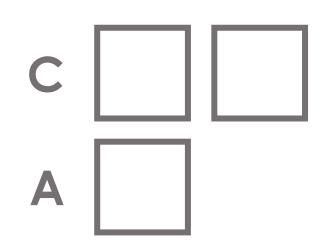
Scaling and Ratio

- Then, 6 adults got in the pool.
- Now there are the same number of children as adults in the swimming pool.
- How many children are there in the swimming pool?



Scaling and Ratio

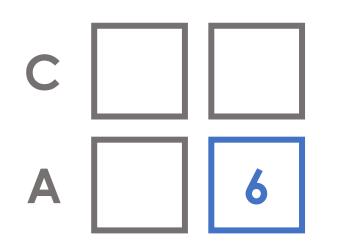
- Then, 6 adults got in the pool.
- Now there are the same number of children as adults in the swimming pool.
- How many children are there in the swimming pool?





Scaling and Ratio

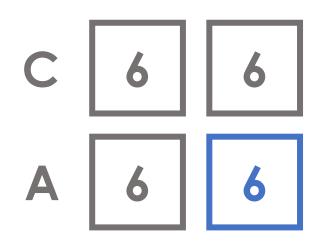
- Then, 6 adults got in the pool.
- Now there are the same number of children as adults in the swimming pool.
- How many children are there in the swimming pool?





Scaling and Ratio

- Then, **6** adults got in the pool.
- Now there are the same number of children as adults in the swimming pool.
- How many children are there in the swimming pool?





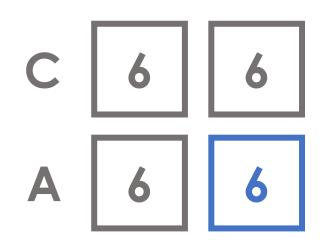
Scaling and Ratio

There were **twice** as many children as adults in the swimming pool.

- Then, 6 adults got in the pool.
- Now there are the same number of children as adults in the swimming pool.

12 children

How many children are there in the swimming pool?





Build¹

Interpreting Remainders



children can be seated on a bus.



Give a possible answer.



Interpreting Remainders

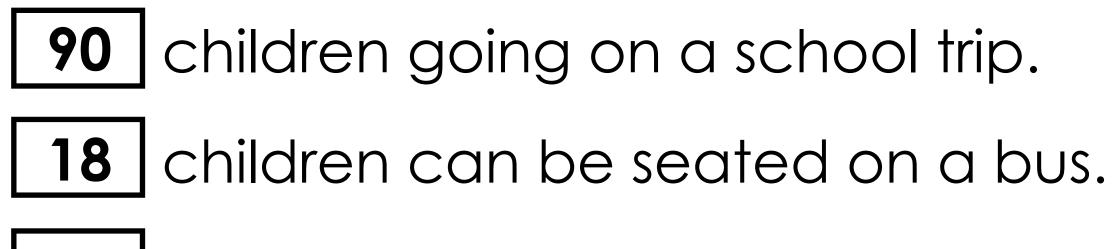


18 children can be seated on a bus.

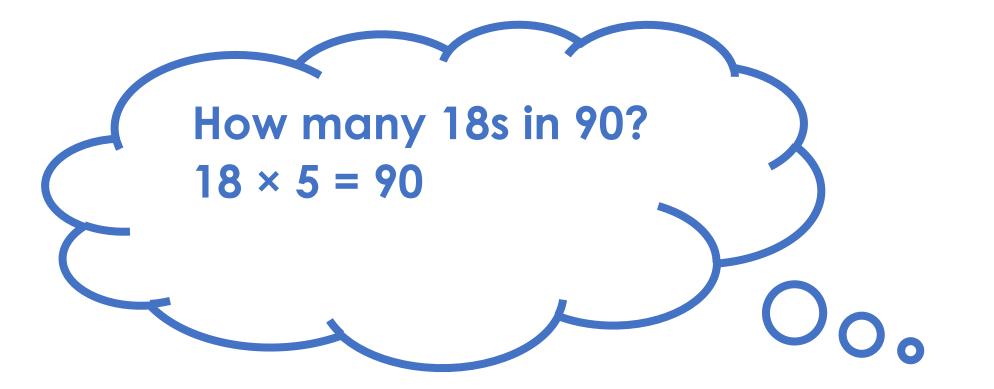
buses needed.



Interpreting Remainders



buses needed.

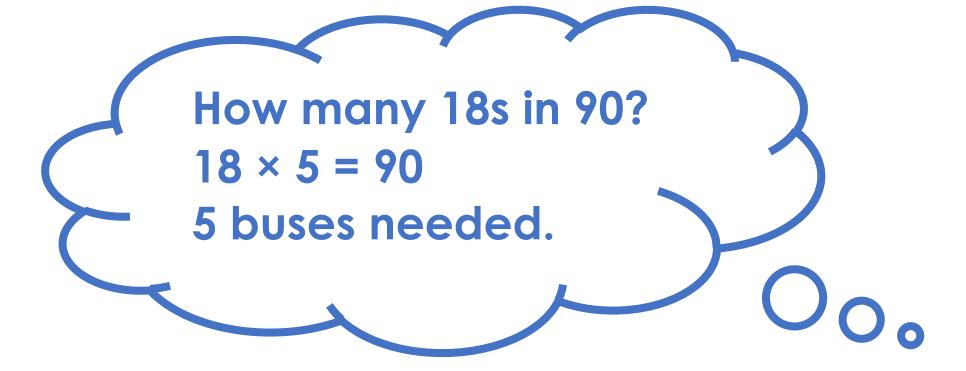




Interpreting Remainders



- **18** children can be seated on a bus.
- 5 buses needed.







18 children can be seated on a bus.

buses needed.

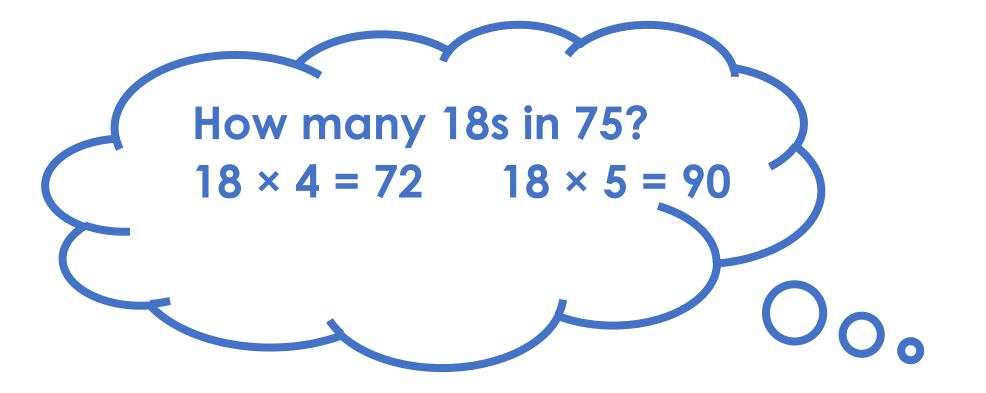


Interpreting Remainders



18 children can be seated on a bus.

buses needed.





Interpreting Remainders



- **18** children can be seated on a bus.
- 5 buses needed.

How many 18s in 75? 18 × 4 = 72 18 × 5 = 90 5 buses needed.



4 people go to a café.

- In total, they spend **£41**
- Each person needs to pay



4 people go to a café.

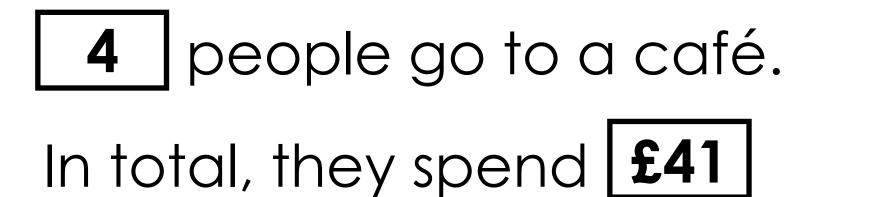
In total, they spend **£41**

Each person needs to pay

Which Answer?







Each person needs to pay **£10.25**

Which Answer?



Zara is making drinks.

She has **litres** of juice.

How many drinks can Zara make?

What information must be given?

Build 2



Zara is making drinks.

- She has **litres** of juice.
- There is **ml** of juice in each drink.

How many drinks can Zara make?



Zara is making drinks.

She has **litres** of juice.

There is **ml** of juice in each drink.

How many drinks can Zara make?

Answer: 11 drinks

The hidden numbers could be... and...



Zara is making drinks.

She has 4 litres of juice.

There is **ml** of juice in each drink.

How many drinks can Zara make?

Answer: 11 drinks

The hidden number could be...



Zara is making drinks.

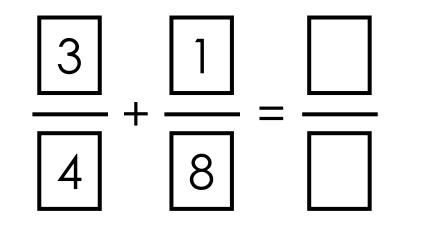
- She has 4 litres of juice.
- There is **350ml** of juice in each drink.
- How many drinks can Zara make?

Answer: 11 drinks

350ml × 11 = 3850ml 350ml × 12 = 4200ml (more than 4 litres)

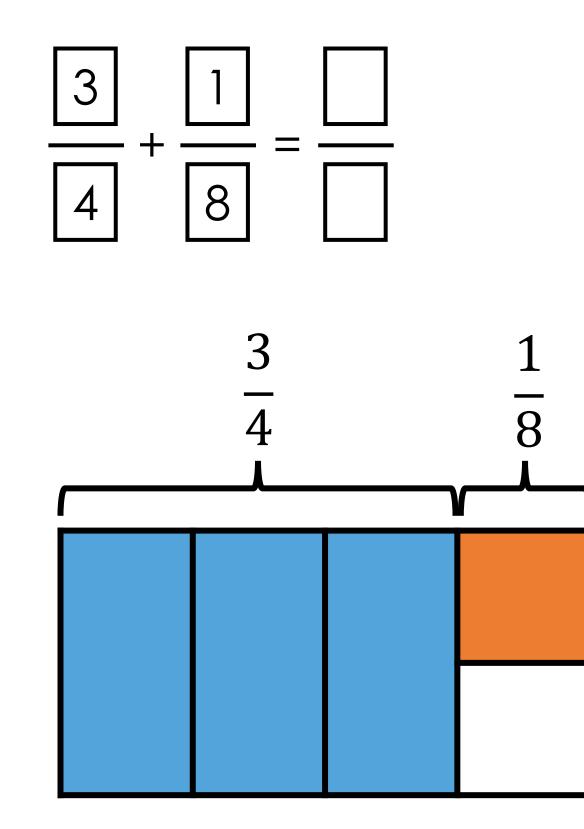


Build 1



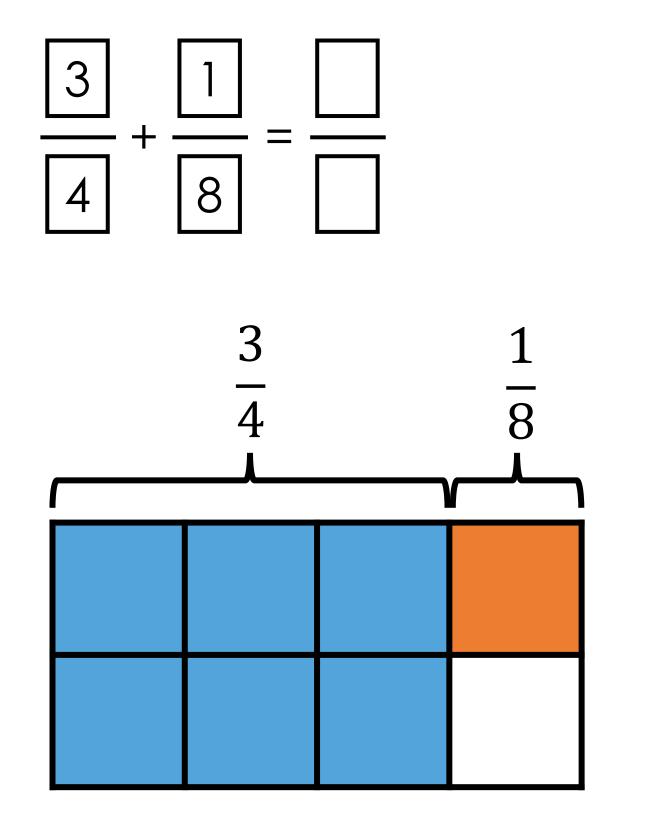


Build 1





Build 1



Convert **one / two** of the fractions into equivalent fractions.

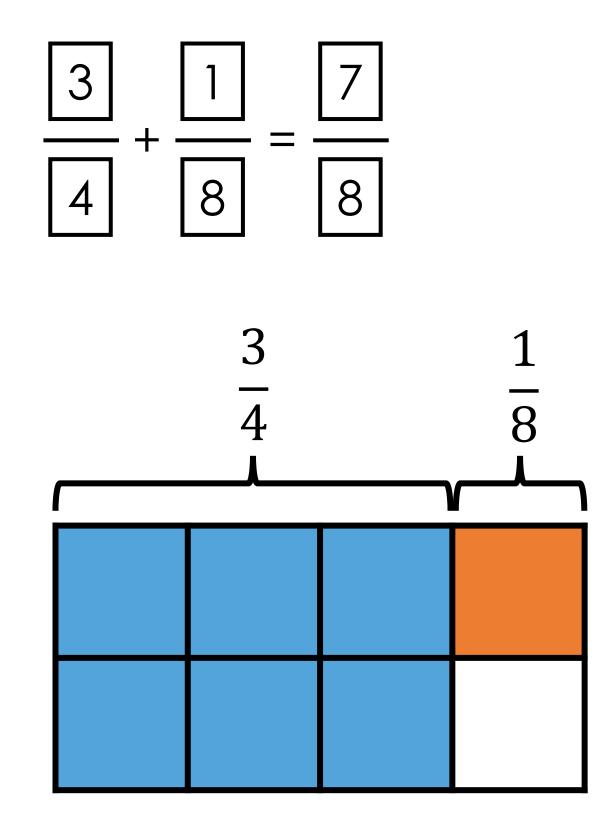
 $\frac{1}{8} =$

6

8



Build 1

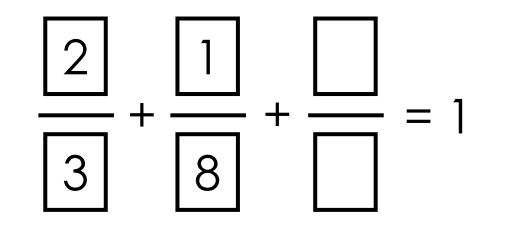


Convert **one / two** of the fractions into equivalent fractions.

 $\frac{6}{8} + \frac{1}{8} = \frac{7}{8}$

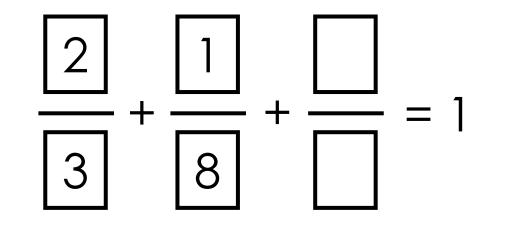


Build 1





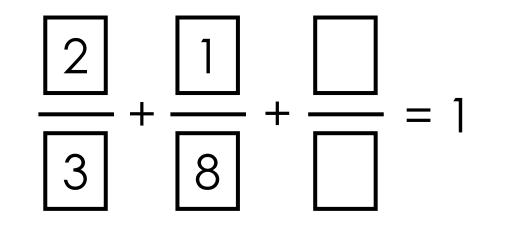
Build 1

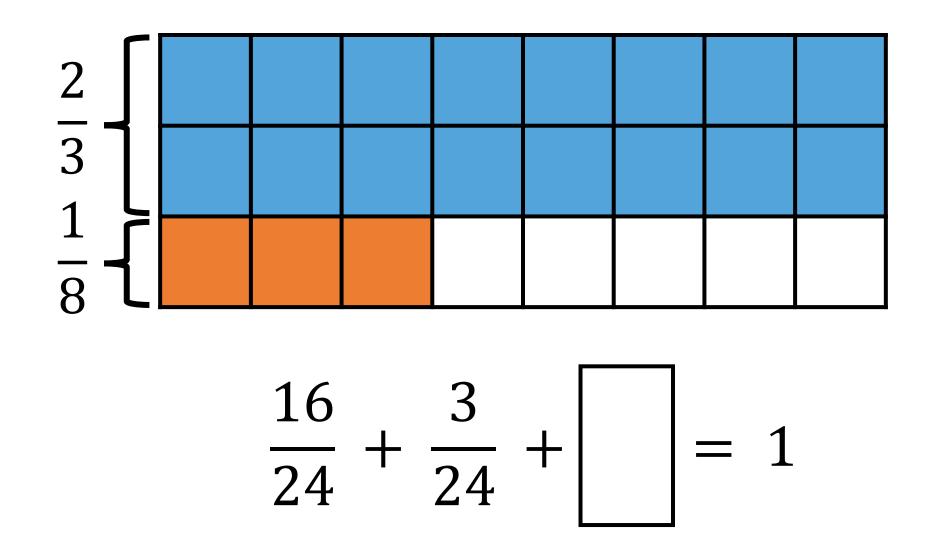






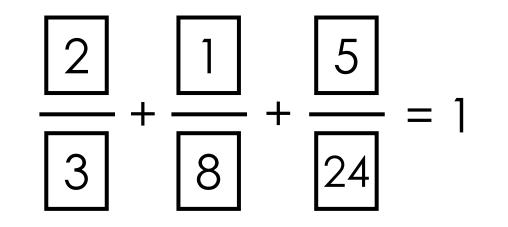
Build 1

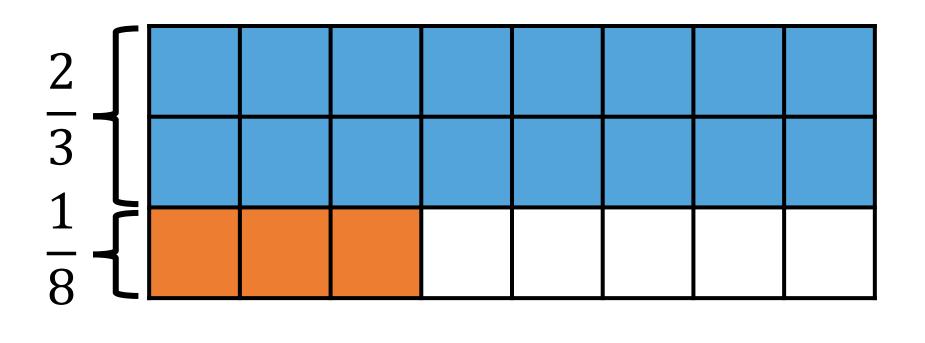






Build 1





$$\frac{16}{24} + \frac{3}{24} + \frac{5}{24} = 1$$

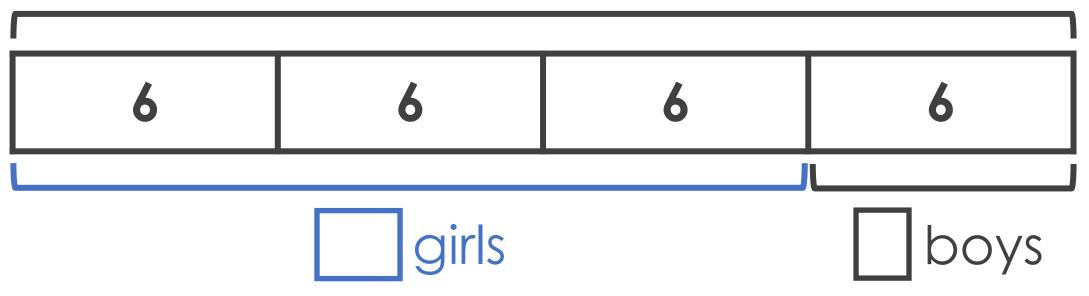




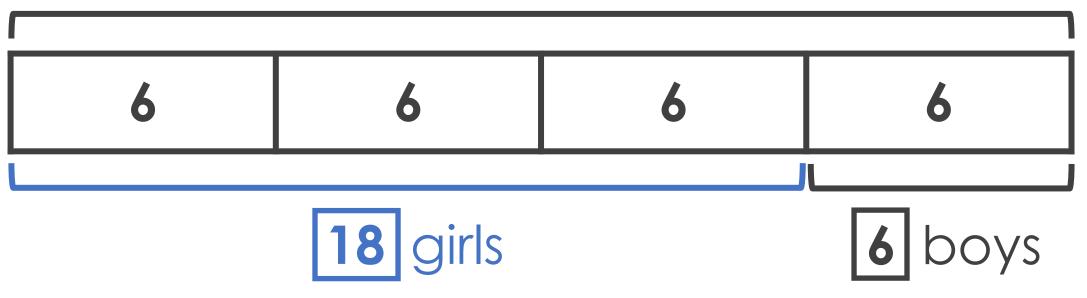












































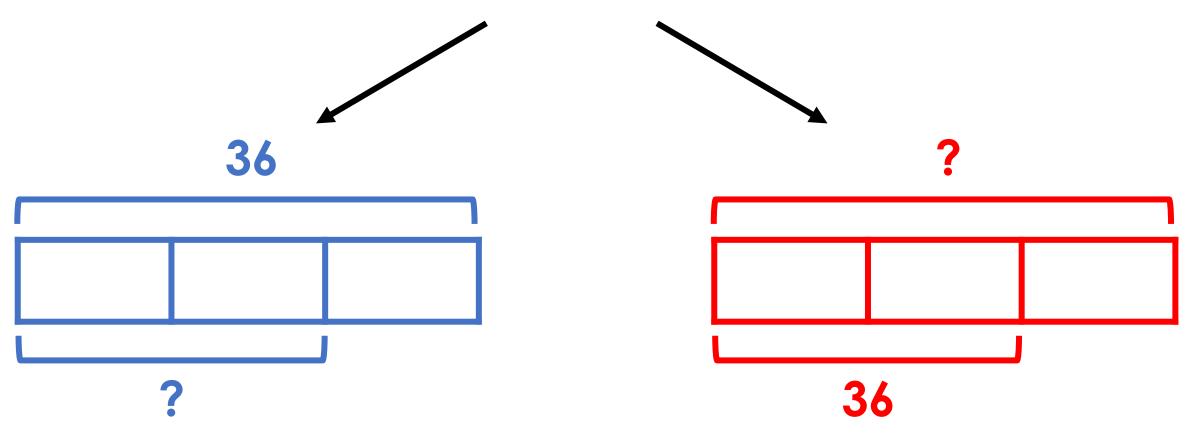
James ate $\frac{2}{3}$ of the grapes in the pack. There were 36 grapes in the pack **How many grapes did he eat?**



James ate $\frac{2}{3}$ of the grapes in the pack. There were 36 grapes in the pack

How many grapes did he eat?

Which bar model represents the question?



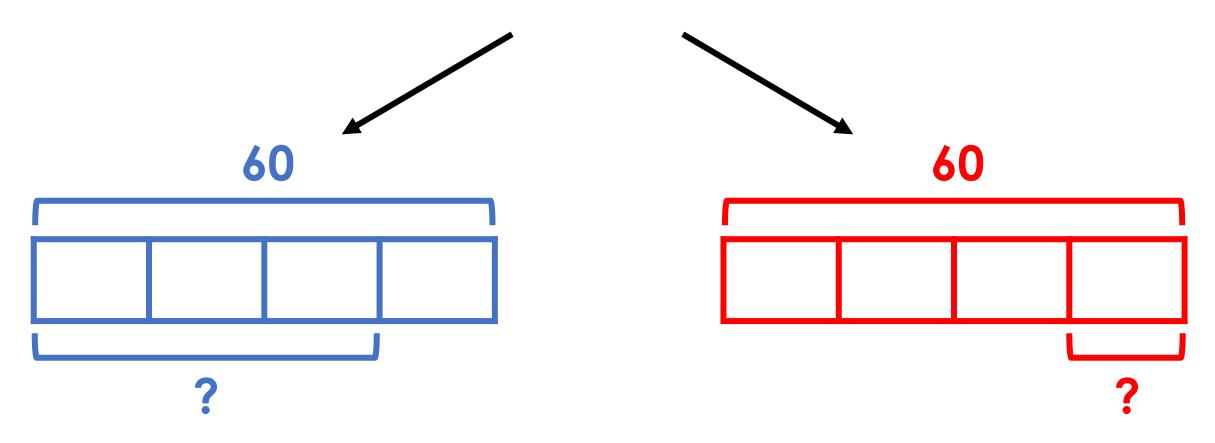


Zara's book is **60** pages long. Zara has read $\frac{3}{4}$ of her book. How many pages does Zara have left to read?



Zara's book is **60** pages long. Zara has read $\frac{3}{4}$ of her book. How many pages does Zara have left to read?

Which bar model represents the question?





For every 2 girls at the party, there is 1 boy. There are 24 girls at the party.

How many boys are there at the party?

Fractions of a Quantity

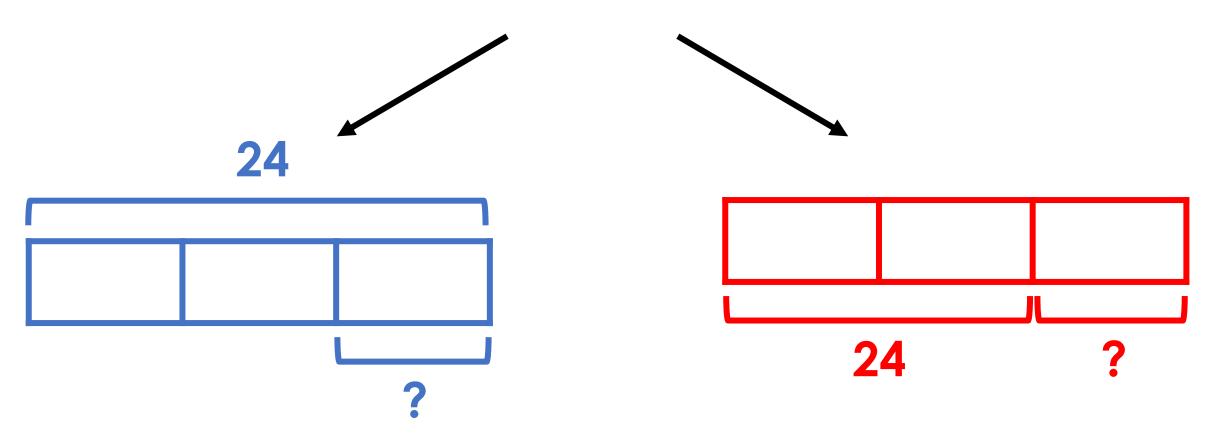


Fractions of a Quantity

For every 2 girls at the party, there is 1 boy. There are 24 girls at the party.

How many boys are there at the party?

Which bar model represents the question?





Multi-Step Fractions

Spot the Difference

Oliver had £45.

- He spent $\frac{1}{3}$ of his money on a watch.
- He spent $\pounds 12$ on a cap.

How much money does he have left?

Freddy had £45.

He spent $\pounds 12$ on a cap.

```
He spent \frac{1}{3} of the remaining money on a watch.
```



Multi-Step Fractions

Spot the Difference

Oliver had £45.

He spent $\frac{1}{3}$ of his money on a watch.

He spent £12 on a cap.

£45 £15 £15 £15

How much money does he have left?

Freddy had £45.

He spent $\pounds 12$ on a cap.

He spent $\frac{1}{3}$ of the remaining money on a watch.

+ I SEE MATHS

Build 1

Multi-Step Fractions

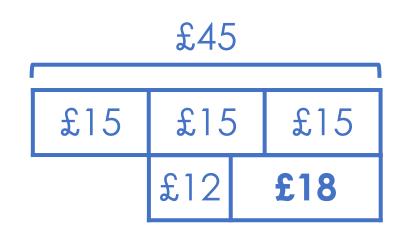
Spot the Difference

Oliver had £45.

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Spot the Difference

Oliver had £45.

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How much money does he have left?

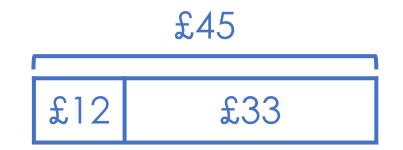
£45 £15 £15 £15 £12 **£18**

Freddy had £45.

He spent $\pounds 12$ on a cap.

He spent $\frac{1}{3}$ of the remaining money on a watch.

How much money does he have left?





Build 1

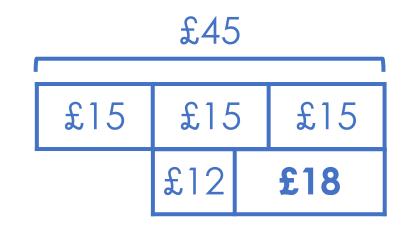
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He spent $\pounds 12$ on a cap.

How much money does he have left?

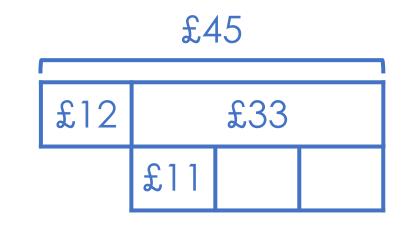


Freddy had £45.

He spent $\pounds 12$ on a cap.

He spent $\frac{1}{3}$ of the remaining money on a watch.

How much money does he have left?





Build 1

Multi-Step Fractions

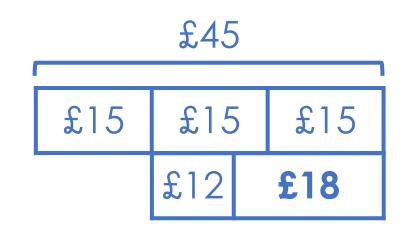
Spot the Difference

Oliver had £45.

He spent $\frac{1}{3}$ of his money on a watch.

He spent $\pounds 12$ on a cap.

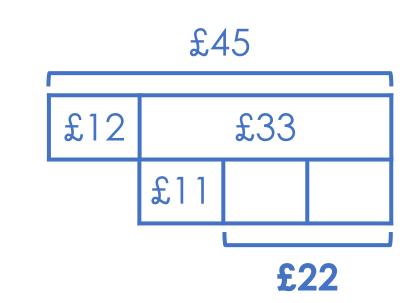
How much money does he have left?



Freddy had £45.

He spent $\pounds 12$ on a cap.

He spent $\frac{1}{3}$ of the remaining money on a watch.





There were some stickers in a pack. Zara used $\frac{2}{3}$ of the stickers.

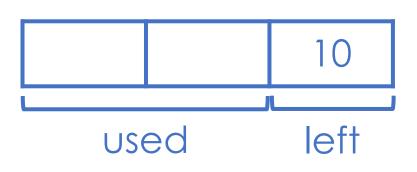
There were 10 stickers left.

How many stickers were in the pack?

There were some stickers in a pack. Zara used $\frac{2}{3}$ of the stickers.

There were 10 stickers left.

How many stickers were in the pack?

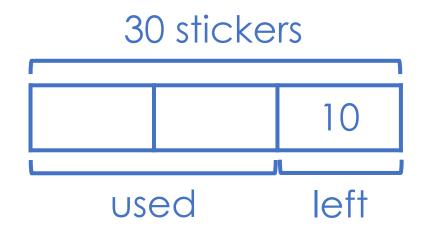




There were some stickers in a pack. Zara used $\frac{2}{3}$ of the stickers.

There were 10 stickers left.

How many stickers were in the pack?

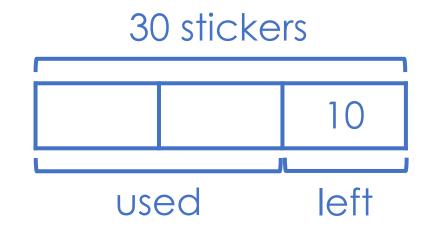




There were some stickers in a pack. Zara used $\frac{2}{3}$ of the stickers.

There were 10 stickers left.

How many stickers were in the pack?



Kelly had some money.

- Kelly spent $\frac{2}{3}$ of her money on a coat.
- She spent £5 on a scarf.
- Kelly had £10 left.
- How much money did Kelly have?

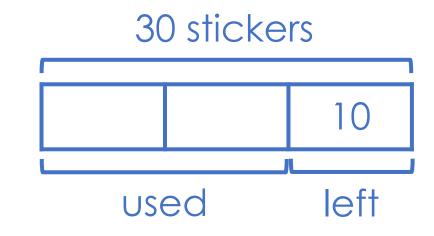


Build 2

There were some stickers in a pack. Zara used $\frac{2}{3}$ of the stickers.

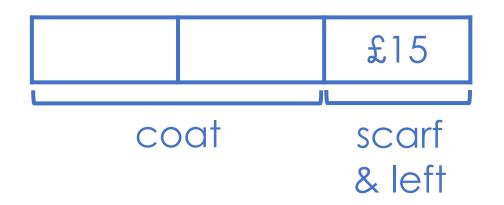
There were 10 stickers left.

How many stickers were in the pack?



Kelly had some money.

- Kelly spent $\frac{2}{3}$ of her money on a coat.
- She spent £5 on a scarf.
- Kelly had £10 left.
- How much money did Kelly have?

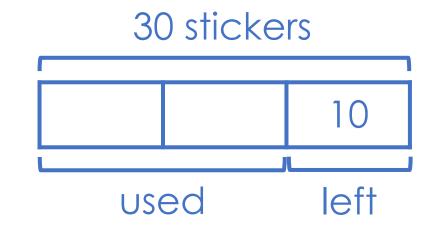




There were some stickers in a pack. Zara used $\frac{2}{3}$ of the stickers.

There were 10 stickers left.

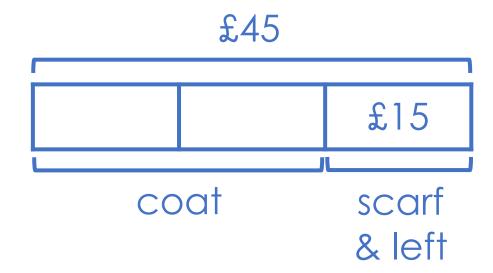
How many stickers were in the pack?



Build 2

Kelly had some money.

- Kelly spent $\frac{2}{3}$ of her money on a coat.
- She spent £5 on a scarf.
- Kelly had £10 left.
- How much money did Kelly have?





- He was given £30 for his birthday.
- Then he spent **half** of his money on a bike.
- Tom has £60 left.



Tom had

- He was given £30 for his birthday.
- Then he spent **half** of his money on a bike.
- Tom has £60 left.

Money Tom had



- He was given £30 for his birthday.
- Then he spent **half** of his money on a bike.
- Tom has £60 left.





- He was given £30 for his birthday.
- Then he spent **half** of his money on a bike.
- Tom has **£60** left.

Money Tom had		£30
Cost of bike	£60 left	



- He was given £30 for his birthday.
- Then he spent **half** of his money on a bike.
- Tom has £60 left.

Money Tom had		£30
£60 bike	£60 left	



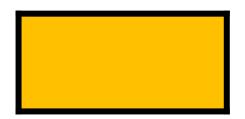
Tom had **£90**

- He was given **£30** for his birthday.
- Then he spent **half** of his money on a bike.
- Tom has £60 left.

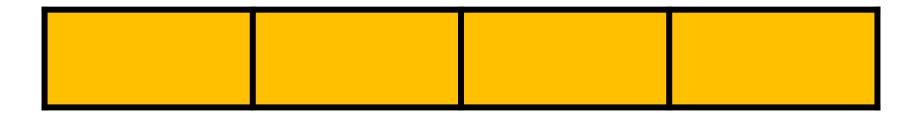
Tom had £90		£30
£60 bike	£60 left	

Inverse

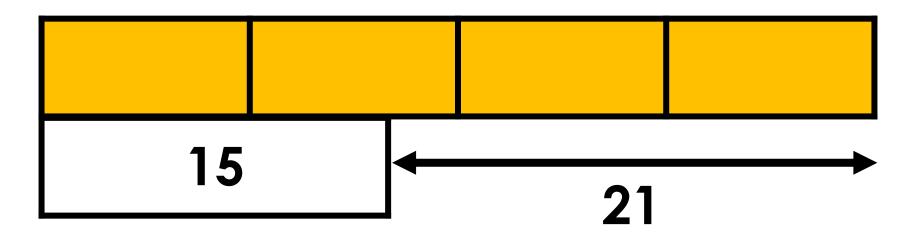
Inverse



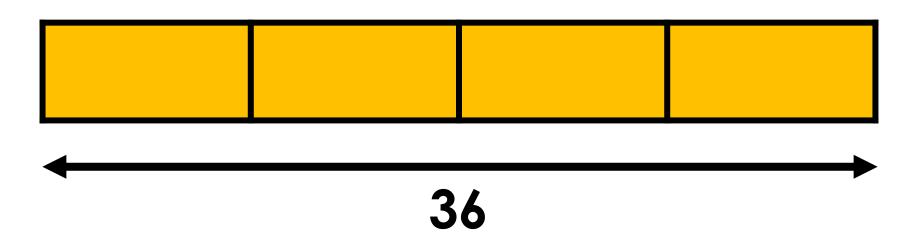
Inverse



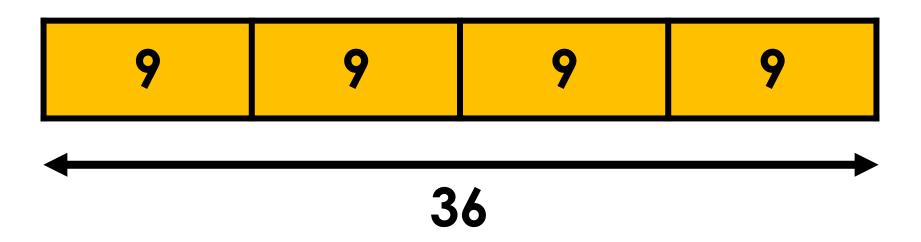
Inverse



Inverse



Inverse









She multiplies her number by **3** Then she adds **2** Now Jen's number is She adds 2 Then she multiplies her number by 3 Now Jen's number is

'The **blue/red** number will be larger because...'





Jen thinks of a number.

She multiplies her number by **3** Then she adds **2** Now Jen's number is She adds 2 Then she multiplies her number by 3 Now Jen's number is







is



Jen thinks of a number.

She multiplies her number by **3**

Then she adds **2**

Now Jen's number

She adds 2

Then she multiplies her number by **3**

Now Jen's number





İS





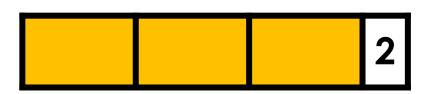
Jen thinks of a number.

She multiplies her number by **3**

Then she adds 2

Now Jen's number

She adds 2 Then she multiplies her number by 3 Now Jen's number is









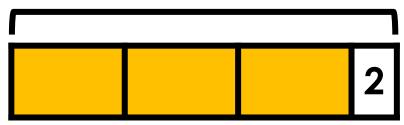
Jen thinks of a number.

She multiplies her number by **3**

Then she adds **2**

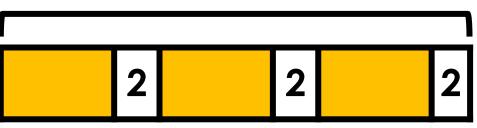
Now Jen's number is **20**

20



She adds 2 Then she multiplies her number by 3 Now Jen's number is 24

24





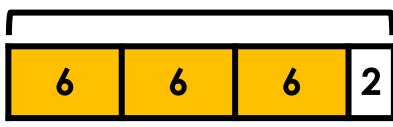


She multiplies her number by **3**

Then she adds 2

Now Jen's number is **20**

20



She adds **2** Then she multiplies her number by **3** Now Jen's number is **24**

24 6 2 6 2 6 2 **Compare the Info**



The patterns are made with identical rectangles and semi-circles.

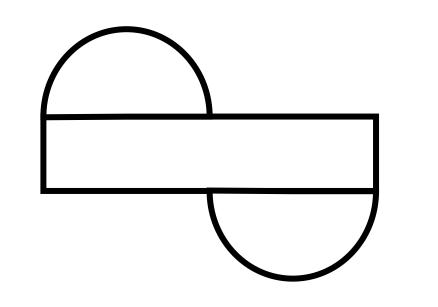


Spot the difference.

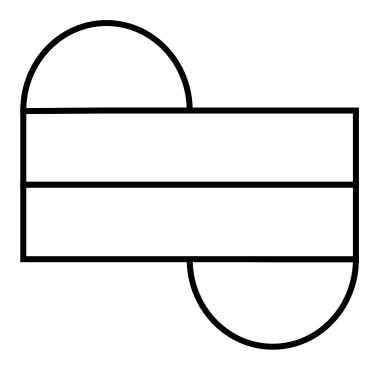
Compare the Info



The patterns are made with identical rectangles and semi-circles.



Pattern A = 50

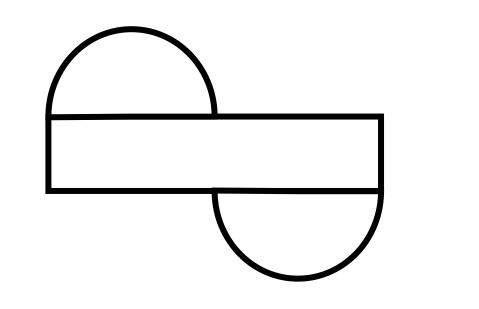


Pattern B = 70

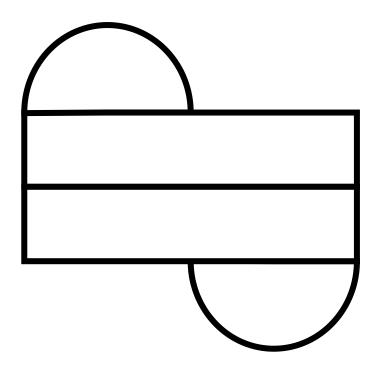


Compare the Info

The patterns are made with identical rectangles and semi-circles.



Pattern A = 50

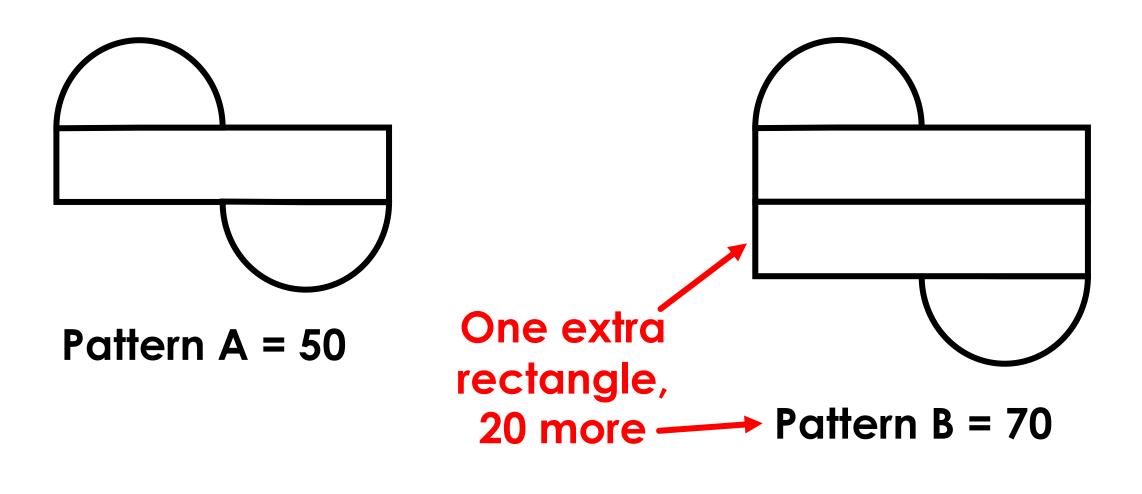


Pattern B = 70



Compare the Info

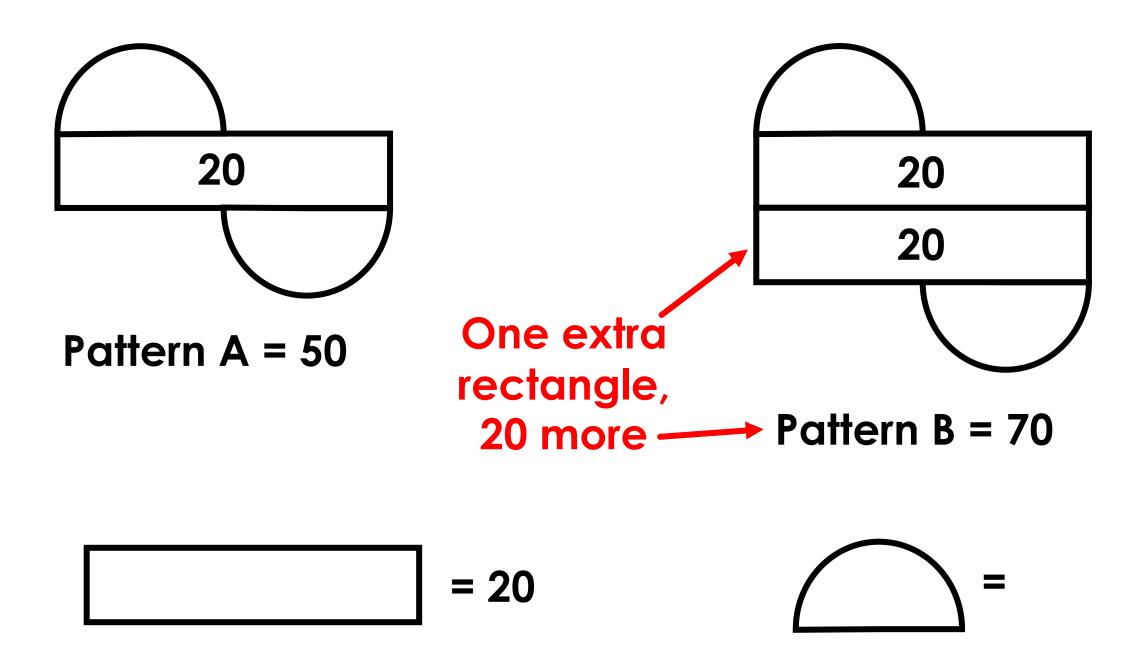
The patterns are made with identical rectangles and semi-circles.





Compare the Info

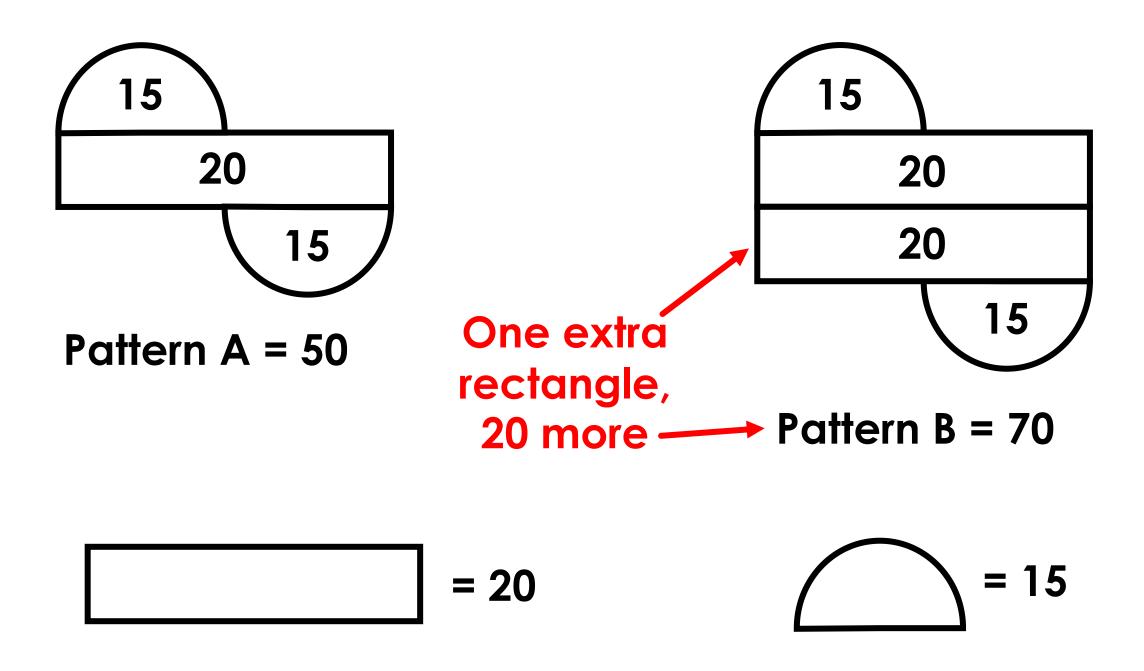
The patterns are made with identical rectangles and semi-circles.





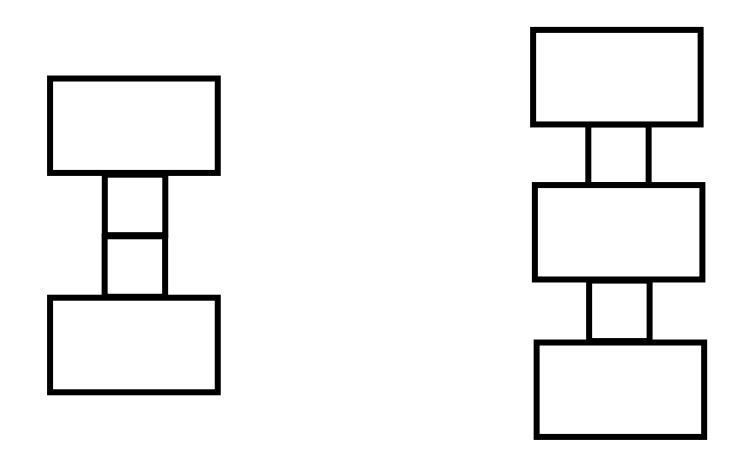
Compare the Info

The patterns are made with identical rectangles and semi-circles.



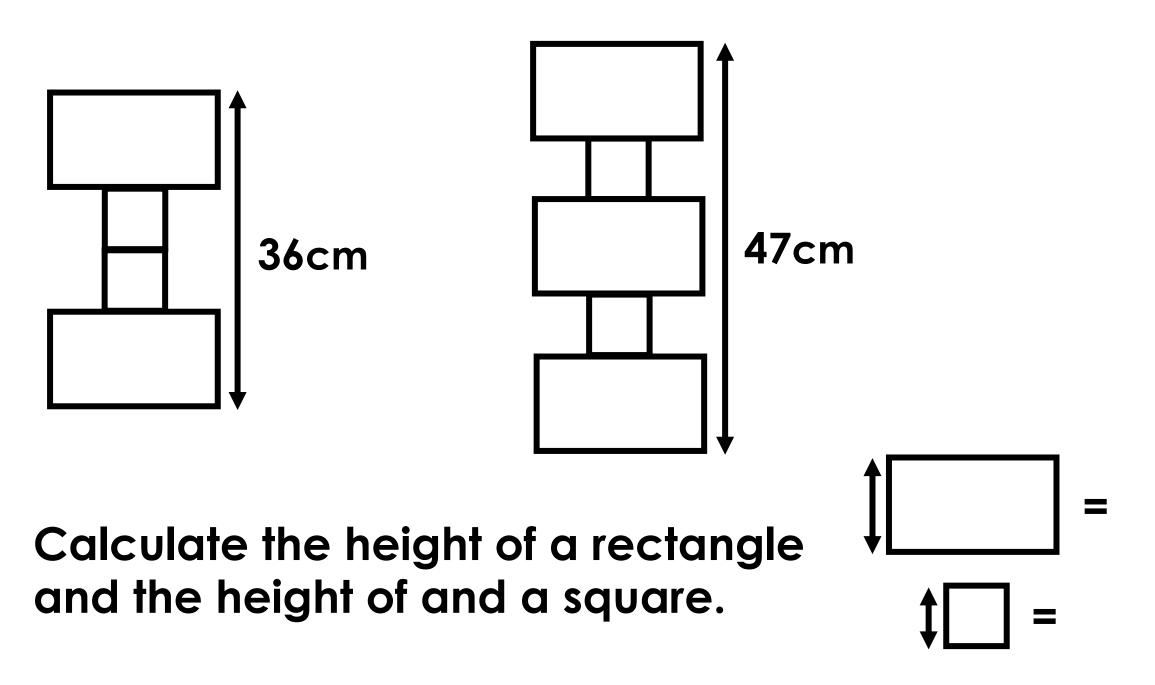


The towers are made with identical squares and identical rectangles.

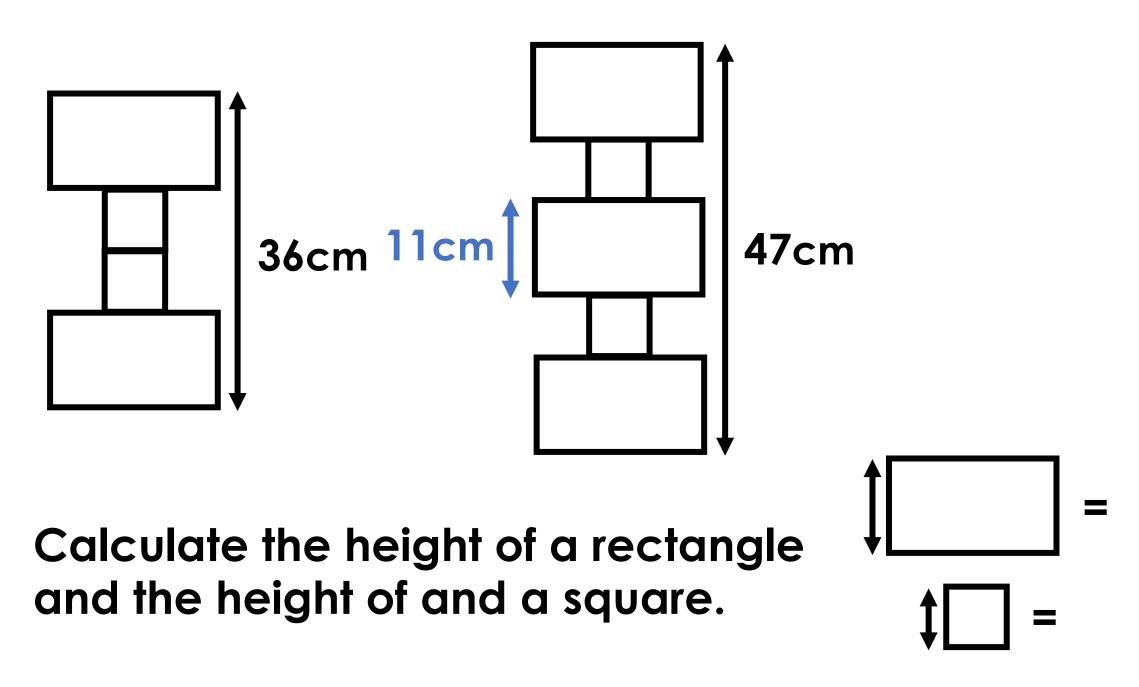


Spot the difference.

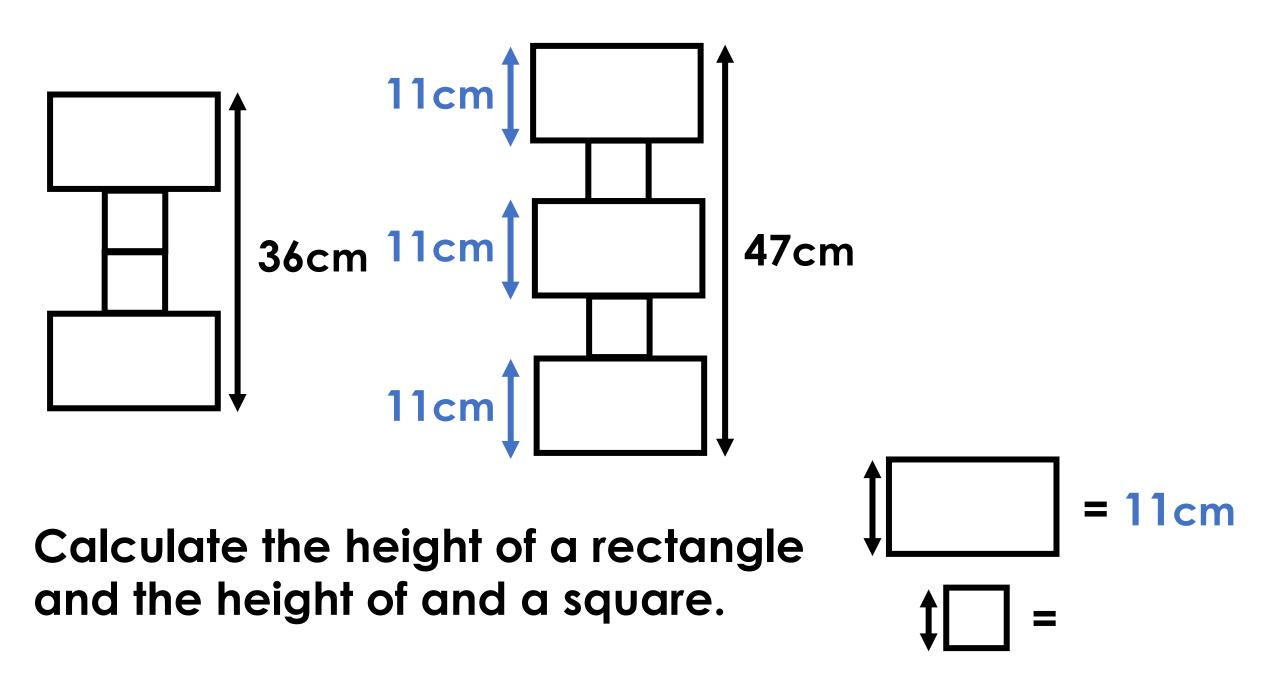




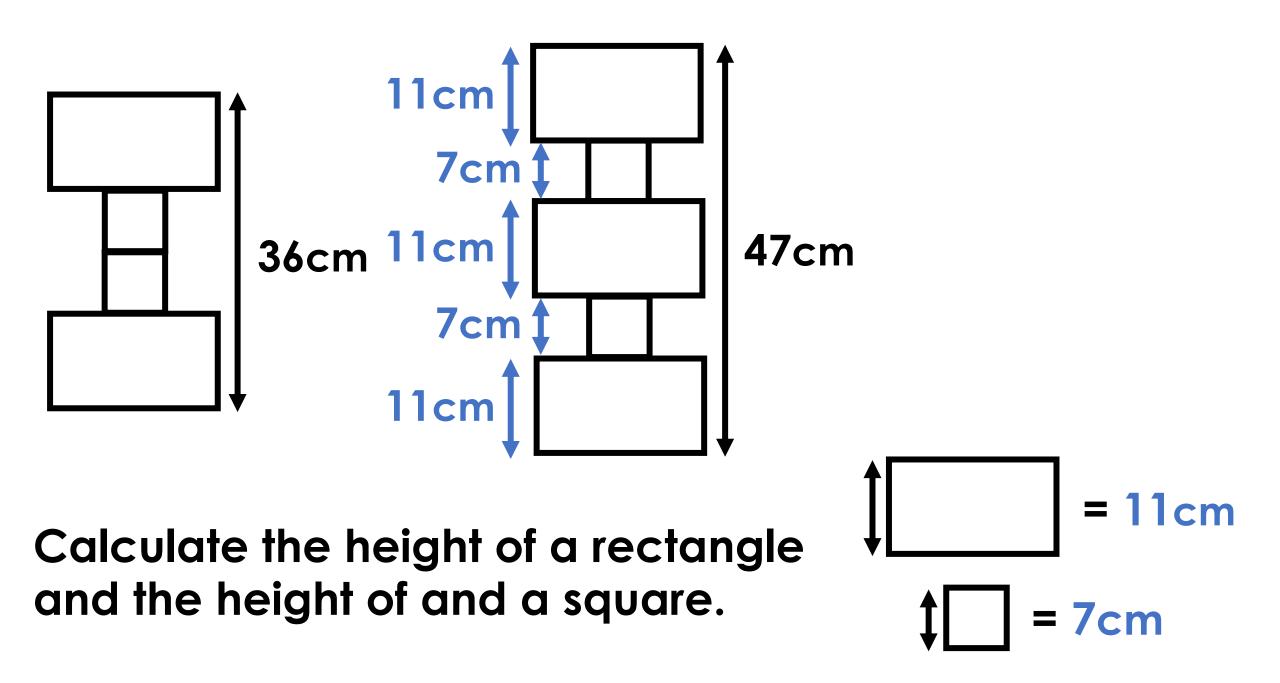














3 adults and **2** children go to the show. They pay for their tickets.

2 adults and 2 children go to the show. They pay for their tickets.

۲ What could the question be?



3 adults and **2** children go to the show. They pay for their tickets.

2 adults and 2 children go to the show. They pay for their tickets.

What is the cost of a child ticket to the show?



3 adults and **2** children go to the show. They pay for their tickets.

2 adults and 2 children go to the show.
They pay £44 for their tickets.

What is the cost of a child ticket to the show?

Child ticket =

Give a possible answer.

Clue: Adult tickets are more expensive than child tickets.



3 adults and **2** children go to the show. They pay **£58** for their tickets.

2 adults and 2 children go to the show.
They pay £44 for their tickets.

What is the cost of a child ticket to the show?



3 adults and **2** children go to the show. They pay **£58** for their tickets.

2 adults and 2 children go to the show.
They pay £44 for their tickets.

What is the cost of a child ticket to the show?

$$\begin{array}{c|cc}
A & A & A & C & C & = £58 \\
\hline A & A & C & C & = £44 \\
\end{array}$$



3 adults and **2** children go to the show. They pay **£58** for their tickets.

2 adults and 2 children go to the show.
They pay £44 for their tickets.

What is the cost of a child ticket to the show?

$$\mathbf{A} = \mathbf{\pounds}\mathbf{14}$$



3 adults and **2** children go to the show. They pay **£58** for their tickets.

2 adults and 2 children go to the show.
They pay £44 for their tickets.

What is the cost of a child ticket to the show?

$$\mathbf{A} = \mathbf{\pounds}\mathbf{14}$$

$$\begin{array}{c|c} A & A & A & C & C & = £58 \\ \hline \pounds 14 & A & A & C & C & = £44 \\ \hline \pounds 16 & & & \\ \hline \pounds 16 & & \\ \end{array}$$



3 adults and **2** children go to the show. They pay **£58** for their tickets.

2 adults and 2 children go to the show.
They pay £44 for their tickets.

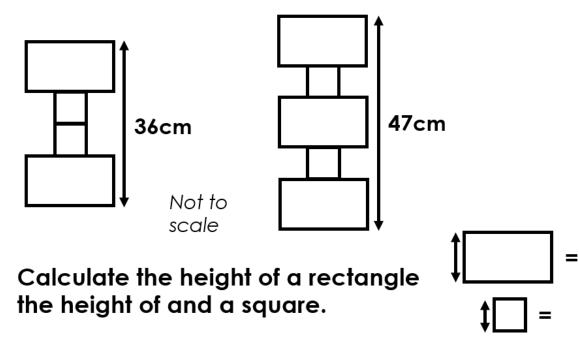
What is the cost of a child ticket to the show?

Child ticket = £8

£8

$$\begin{array}{c|c} A & A & A & C & C & = £58 \\ \hline \pounds 14 & A & A & C & C & = £44 \\ \hline \hline \pounds 14 & A & A & - \pounds 16 \end{array}$$

The towers are made with identical squares and identical rectangles.



The questions are similar because...

3 adults and **2** children go to the show. They pay for their tickets.

2 adults and **2** children go to the show. They pay for their tickets.

What is the cost of a child ticket to the show?





Fixed Amount + Variable Amount

At the bike shop, it costs **£6** to hire a bike plus **£4** for each hour that it is used.

How much does it cost to hire a bike for 5 hours?

+ I SEE MATHS

Build 1

Fixed Amount + Variable Amount

At the bike shop, it costs **£6** to hire a bike plus **£4** for each hour that it is used.

How much does it cost to hire a bike for 5 hours?

Explain the Mistake:

$$£6 \times 5 + £4 = £34$$



Fixed Amount + Variable Amount

At the bike shop, it costs **£6** to hire a bike plus **£4** for each hour that it is used.

How much does it cost to hire a bike for 5 hours?

Correct Answer:

$\pounds 4 \times 5 + \pounds 6 = \pounds 26$

£4 £4 £4	£4	£4	£6
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Fixed Amount + Variable Amount

Tickets at the cinema cost **£9** plus there is a **£3** booking fee.

How much does it cost to buy 4 cinema tickets?

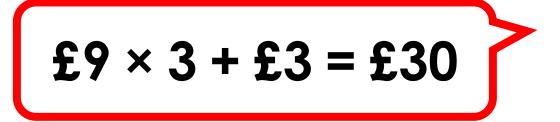


Fixed Amount + Variable Amount

Tickets at the cinema cost **£9** plus there is a **£3** booking fee.

How much does it cost to buy 4 cinema tickets?

Explain the Mistakes:





Fixed Amount + Variable Amount

Tickets at the cinema cost **£9** plus there is a **£3** booking fee.

How much does it cost to buy 4 cinema tickets?

Correct Answer:

$£9 \times 4 + £3 = £39$

£9 £9	£9	£9	£3
-------	----	----	----

Make Your Own Pizza £3.50 for the pizza base 75p per topping

Tom makes a pizza using 3 toppings. **How much does it cost?**

Make Your Own Pizza £3.50 for the pizza base 75p per topping

Tom makes a pizza using 3 toppings. **How much does it cost?**

|--|

Make Your Own Pizza £3.50 for the pizza base 75p per topping

Tom makes a pizza using 3 toppings. **How much does it cost?**

£3.50	75 p	75 p	75 p

£5.75

Make Your Own Pizza £3.50 for the pizza base 75p per topping

Amy has £7. **How many toppings can she afford?**

Build 2

Make Your Own Pizza £3.50 for the pizza base 75p per topping

Amy has £7. **How many toppings can she afford?**

£7					
£3.50	75 p				

Build 2

Make Your Own Pizza £3.50 for the pizza base 75p per topping

Amy has £7. **How many toppings can she afford?**

£7					
£3.50	75 p	<mark>75</mark> p	75 p	<mark>75</mark> p	75 p

Amy can afford 4 toppings.

Gym Prices: £8 per session for non-members £5 per session for members Membership: £20 per year **Build 3**

You save money by being a member of the gym if...



Multi-Step Measures

There is a **2km** relay race at the park.

How far does each person run?

What information must be given?



Build¹

Multi-Step Measures

There is a **2km** relay race at the park. There are runners on a team. **How far does each person run?**



Multi-Step Measures

There is a **2km** relay race at the park. There are **5** runners on a team. **How far does each person run?**



Build '

Multi-Step Measures

There is a **2km** relay race at the park. There are **5** runners on a team. **How far does each person run?**

$2km \times 1000 = 2000m$



Build '

Multi-Step Measures

There is a **2km** relay race at the park. There are **5** runners on a team. **How far does each person run?**

$2km \times 1000 = 2000m$ $2000m \div 5 = 400m$



Multi-Step Measures

A bakery has an order for Cakes.

The bakery has **3kg** of sugar.

How much sugar does the bakery have left?

What information must be given?

- A bakery has an order for Cakes.
- There is **350g** of sugar in each cake.
- The bakery has **3kg** of sugar.
- How much sugar does the bakery have left?



- A bakery has an order for 6 cakes.
- There is **350g** of sugar in each cake.
- The bakery has **3kg** of sugar.
- How much sugar does the bakery have left?

- A bakery has an order for **6** cakes.
- There is **350g** of sugar in each cake.
- The bakery has **3kg** of sugar.
- How much sugar does the bakery have left?

350g × 6 = 2100g

Build '

- A bakery has an order for 6 cakes.
- There is **350g** of sugar in each cake.
- The bakery has **3kg** of sugar.
- How much sugar does the bakery have left?
 - 350g × 6 = 2100g 3000g - 2100g = <u>900g</u>



Maria is baking cakes.

Maria has **1.2kg** of butter.

What could the information be?

What could the question be?



Maria is baking cakes.

Maria has **1.2kg** of butter.

180g of butter is needed to make a cake.

What could the question be?



Maria is baking cakes.

Maria has **1.2kg** of butter.

180g of butter is needed to make a cake.

How many cakes can she make?



Maria is baking cakes.

Maria has **1.2kg** of butter.

180g of butter is needed to make a cake.

How many cakes can she make?

1.2kg × 1000 = 1200g



Maria is baking cakes.

Maria has **1.2kg** of butter.

180g of butter is needed to make a cake.

How many cakes can she make?

1.2kg × 1000 = 1200g

180g × 5 = 900g

 $180g \times 6 = 1080g$

180g × 7 = 1260g



Maria is baking cakes.

Maria has **1.2kg** of butter.

180g of butter is needed to make a cake.

How many cakes can she make?

1.2kg × 1000 = 1200g <u>Maria can make 6 cakes</u> 180g × 5 = 900g

180g × 6 = 1080g

180g × 7 = 1260g



Stan wakes up at 7:35am.

Mike wakes up

Stan.

At what time does Mike wake up?



Stan wakes up at 7:35am.

Mike wakes up

Stan.

At what time does Mike wake up?

The answer is between 8:00am and 8:30am.

What information could be in the box?

Hours and Minutes

Stan wakes up at 7:35am. Mike wakes up $\frac{3}{4}$ hour after Stan.

At what time does Mike wake up?



Stan wakes up at 7:35am. Mike wakes up $\frac{3}{4}$ hour after Stan.

At what time does Mike wake up?

Explain the Mistake:

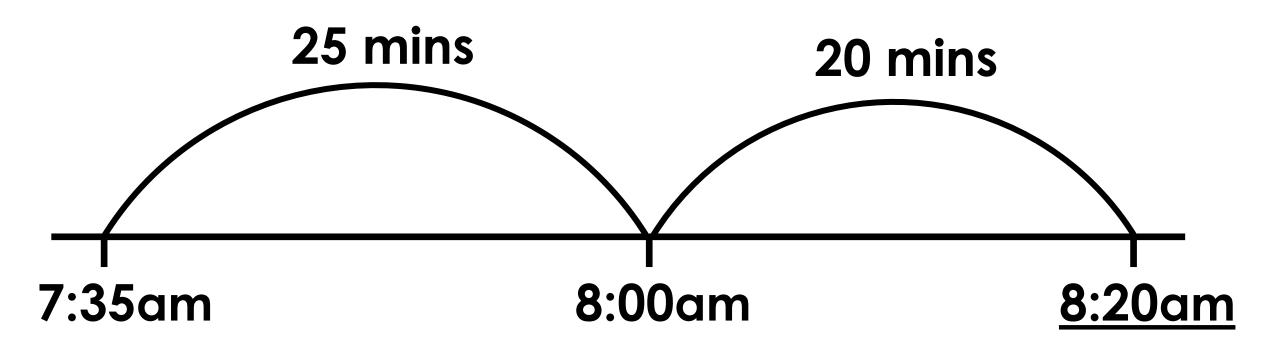
45 minutes after 7:35am is 7:80am

Hours and Minutes

Stan wakes up at 7:35am. Mike wakes up $\frac{3}{4}$ hour after Stan.

At what time does Mike wake up?







Kim ran a 10km race in 51 minutes 15 seconds

Becky finished

before Kim.

How long did it take Becky to run the race?



Build¹

Kim ran a 10km race in 51 minutes 15 secondsBecky finishedbefore Kim.

How long did it take Becky to run the race?

The answer is between 49 minutes and 50 minutes. What information could be in the box?



Kim ran a **10km** race in **51 minutes 15 seconds** Becky finished **1 minute 40 seconds** before Kim. **How long did it take Becky to run the race?**



Build¹

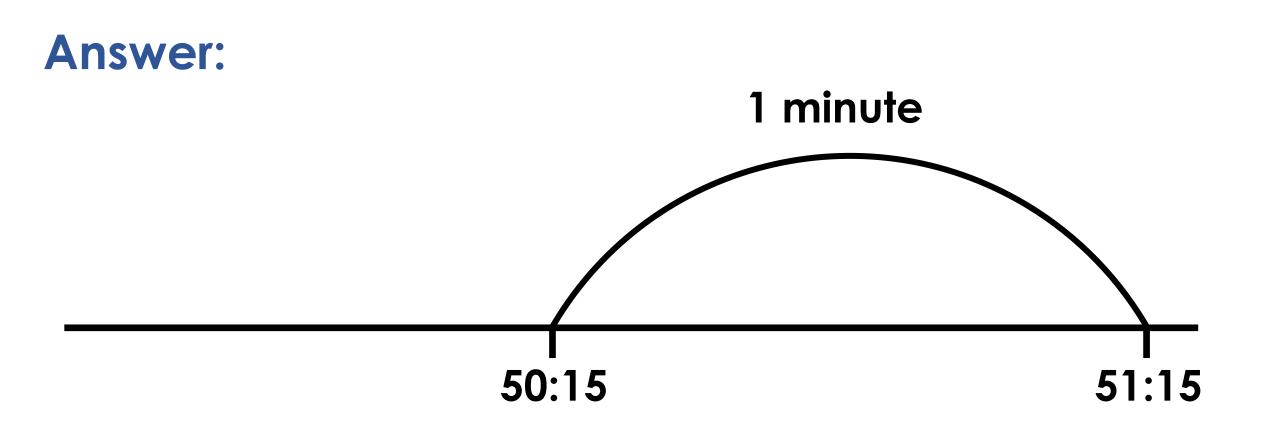
Kim ran a **10km** race in **51 minutes 15 seconds** Becky finished **1 minute 40 seconds** before Kim. **How long did it take Becky to run the race?**

Explain the Mistake:



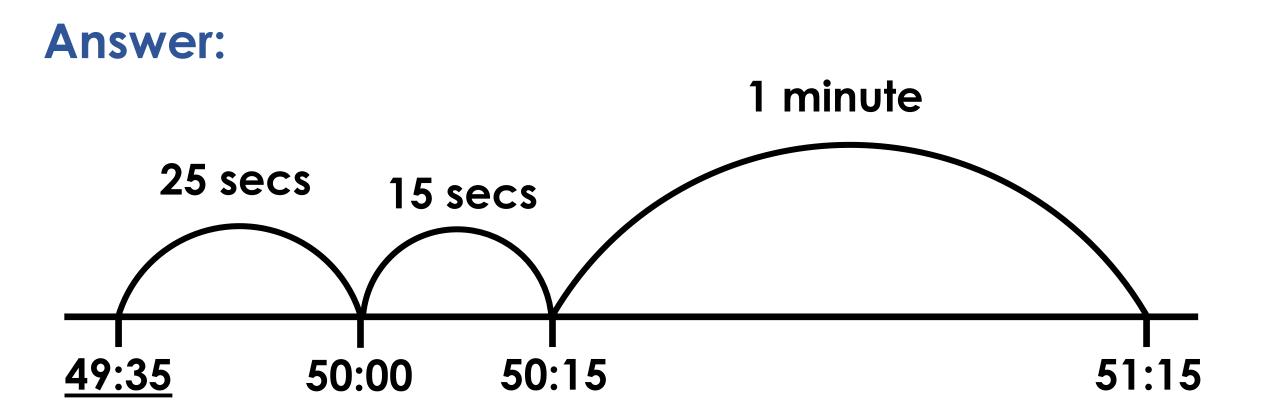


Kim ran a **10km** race in **51 minutes 15 seconds** Becky finished **1 minute 40 seconds** before Kim. **How long did it take Becky to run the race?**





Kim ran a **10km** race in **51 minutes 15 seconds** Becky finished **1 minute 40 seconds** before Kim. **How long did it take Becky to run the race?**





Here are two train timetables:

Sheffield	7:13	8:13	9:01	York	7:34	9:15	10:56
Doncaster	7:42	8:40	9:30	Malton	7:59	9:40	11:21
York	8:09	9:07	9:57	Seamer	8:16	9:57	11:38
Durham	8:57	9:54	10:46	Eastfield	8:22	10:03	12:14
Newcastle	9:18	10:15	11:08				

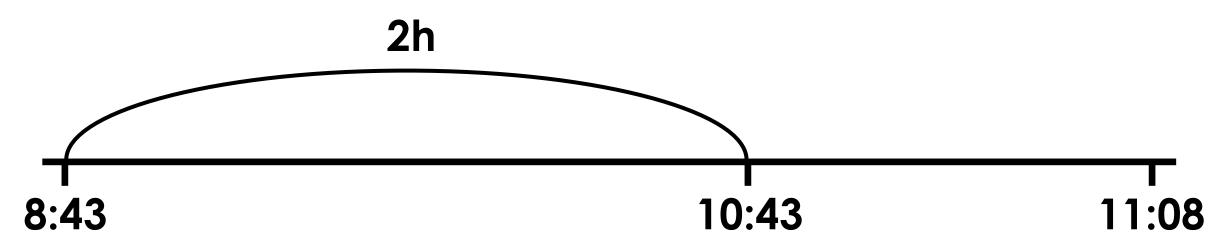
Kam arrives in Doncaster station at 8:43. **How long will it take him to arrive in Newcastle?**



Here are two train timetables:

Sheffield	7:13	8:13	9:01	York	7:34	9:15	10:56
Doncaster	7:42	8:40	9:30	Malton	7:59	9:40	11:21
York	8:09	9:07	9:57	Seamer	8:16	9:57	11:38
Durham	8:57	9:54	10:46	Eastfield	8:22	10:03	12:14
Newcastle	9:18	10:15	11:08				

Kam arrives in Doncaster station at 8:43. **How long will it take him to arrive in Newcastle?**

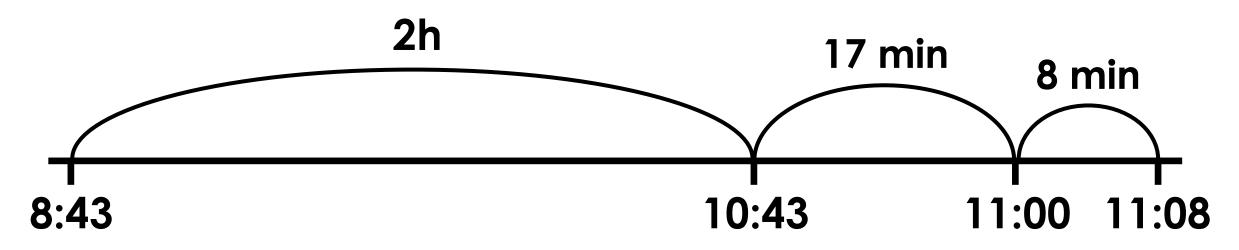




Here are two train timetables:

Sheffield	7:13	8:13	9:01	York	7:34	9:15	10:56
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Durham	8:57	9:54	10:46	Eastfield	8:22	10:03	12:14
Newcastle	9:18	10:15	11:08				

Kam arrives in Doncaster station at 8:43.2 hours,How long will it take him to arrive in Newcastle?25 mins





Here are two train timetables:

Sheffield	7:13	8:13	9:01	York	7:34	9:15	10:56
Doncaster	7:42	8:40	9:30	Malton	7:59	9:40	11:21
York	8:09	9:07	9:57	Seamer	8:16	9:57	11:38
Durham	8:57	9:54	10:46	Eastfield	8:22	10:03	12:14
Newcastle	9:18	10:15	11:08				

Kate gets the 8:13 train from Sheffield. She is travelling to Seamer. **How long is Kate's journey?**



Here are two train timetables:

Sheffield	7:13	8:13	9:01	York	7:34	9:15	10:56
Doncaster	7:42	8:40	9:30	Malton	7:59	9:40	11:21
York	8:09	9:07	9:57	Seamer	8:16	9:57	11:38
Durham	8:57	9:54	10:46	Eastfield	8:22	10:03	12:14
Newcastle	9:18	10:15	11:08				

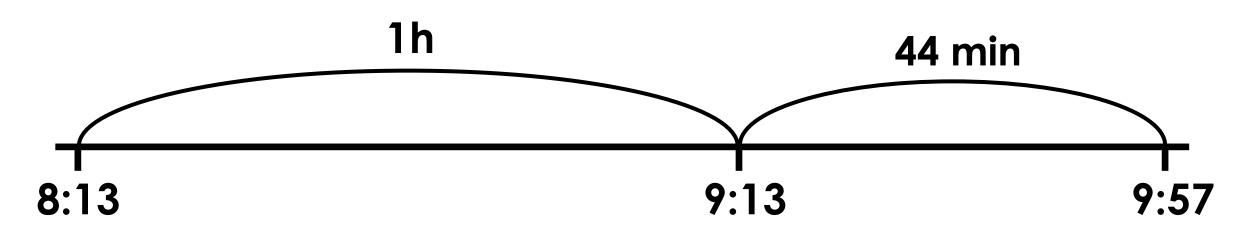
Kate gets the 8:13 train from Sheffield. She is travelling to Seamer. **How long is Kate's journey?**



Here are two train timetables:

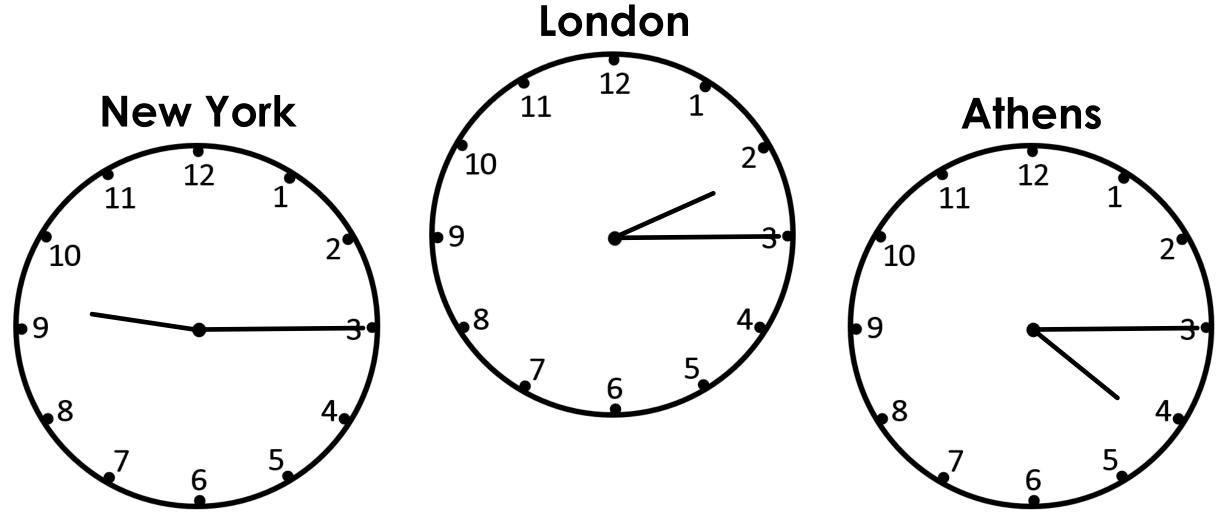
Sheffield	7:13	8:13	9:01	York	7:34	9:15	10:56
Doncaster	7:42	8:40	9:30	Malton	7:59	9:40	11:21
York	8:09	9:07	9:57	Seamer	8:16	9:57	11:38
Durham	8:57	9:54	10:46	Eastfield	8:22	10:03	12:14
Newcastle	9:18	10:15	11:08				

Kate gets the 8:13 train from Sheffield. She is travelling to Seamer. **How long is Kate's journey?** 1 hour 44 mins





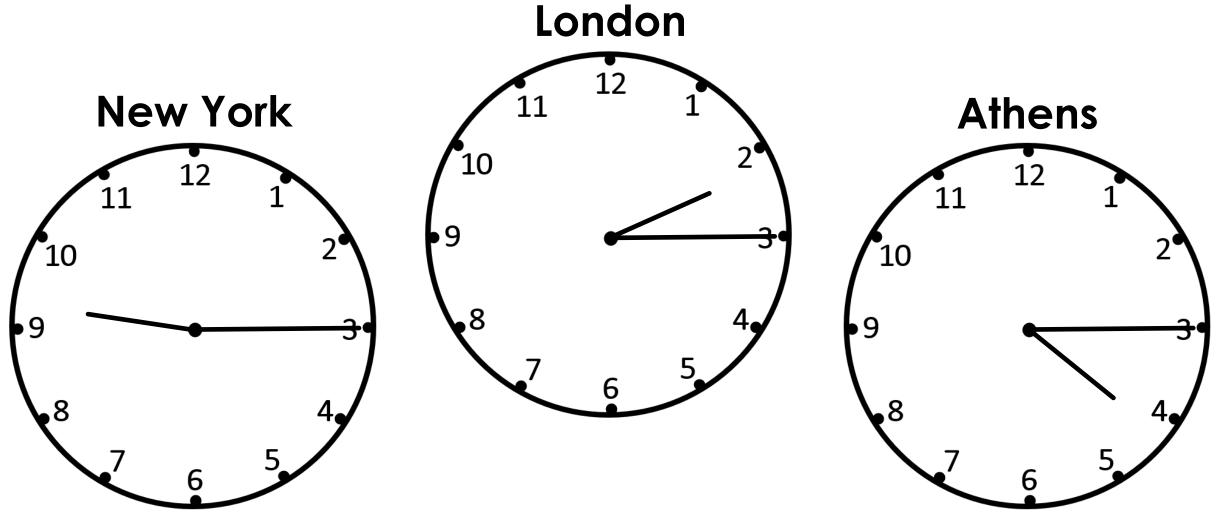
These clocks show the time in different cities at UK time **14:15**





Hours and Minutes

These clocks show the time in different cities at UK time **14:15**

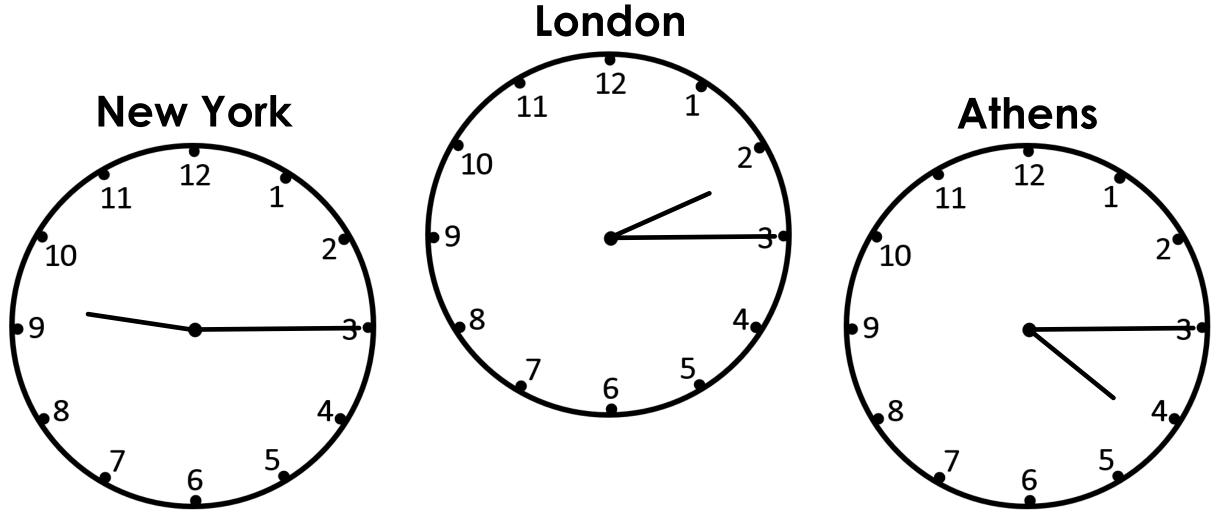


When the time in Athens is 20:45, what is the time in New York?



Hours and Minutes

These clocks show the time in different cities at UK time **14:15**



When the time in Athens is 20:45, what is the time in New York? 13:45 in New York



Converting Units of Time

The blue line represents 1 day

The red line represents



Converting Units of Time

The blue line represents 1 day

The red line represents 20 hours



Converting Units of Time

The blue line represents 1 day

The red line represents 20 hours

There are 24 hours in a day.

1 day > 24 hours



Converting Units of Time

The green line represents 180 minutes

The purple line represents



Converting Units of Time

The green line represents 180 minutes

The purple line represents 3 hours



Build '

Converting Units of Time

The green line represents 180 minutes

The purple line represents **3 hours**

There are 60 minutes in an hour. 180 minutes = 3 hours





The pink line represents 2 months

The orange line represents



The pink line represents 2 months

The orange line represents 9 weeks



The pink line represents 2 months

The orange line represents 9 weeks

There are 28-31 days in a month. There are 7 days in a week.

2 months < 9 weeks



14th July, 1:40pm What will the time be in 200 minutes?



14th July, 1:40pm What will the time be in **200 minutes?**





later



14th July, 1:40pm What will the time be in **200 minutes?**

60 mins = 1 hour



60 mins = 1 hour later 180 mins = 3 hours 200 mins = 3 hours 20 mins





60 mins = 1 hourlater180 mins = 3 hours200 mins = 3 hours 20 mins





60 mins = 1 hourlater180 mins = 3 hours200 mins = 3 hours 20 mins





60 mins = 1 hourlater180 mins = 3 hours200 mins = 3 hours 20 mins





60 mins = 1 hourlater180 mins = 3 hours200 mins = 3 hours 20 mins

What was the time and date 52 hours ago?

arlier
 24 hours = 1 day
 48 hours = 2 days
 52 hours = 2 days 4 hours



60 mins = 1 hourlater180 mins = 3 hours200 mins = 3 hours 20 mins

What was the time and date 52 hours ago?

earlier

- 24 hours = 1 day
- 48 hours = 2 days 52 hours = 2 days 4 hours

12th July, 9:40am



I SEE MATHS



Build 2

Days: January: February: **28-29** March: April: **30** May: June: 30 July: August: September: 30 October: November: 30 December:



Build 2

Days: January: 31 February: **28-29** March: 31 April: **30** May: 31 June: 30 July: 31 August: 31 September: 30 October: 31 November: 30 December: 31

What will the date be **1 week** after 25th October?

What was the date 1 week before 2nd October?

Days: January: **31** February: **28-29** March: 31 April: **30** May: 31 June: 30 July: **31** August: 31 September: 30 October: 31 November: 30 December: 31



What will the date be **1 week** after 25th October?

6 days later is the last day in October

What was the date 1 week before 2nd October?

Days: January: 31 February: **28-29** March: 31 April: **30** May: 31 June: 30 July: **31** August: 31 September: 30 October: 31 November: 30 December: 31



What will the date be **1 week** after 25th October?

6 days later is the last day in October Answer: 1st November

What was the date **1 week**

before 2nd October?

Days: January: 31 February: **28-29** March: 31 April: **30** May: 31 June: 30 July: **31** August: 31 September: 30 October: 31 November: 30 December: 31



What will the date be **1 week** after 25th October?

6 days later is the last day in October Answer: 1st November

What was the date 1 week before 2nd October?

2 days earlier was the last day in September

Days: January: 31 February: **28-29** March: 31 April: **30** May: 31 June: 30 July: **31** August: 31 September: 30 October: 31 November: 30 December: 31



What will the date be **1 week** after 25th October?

6 days later is the last day in October Answer: 1st November

What was the date 1 week before 2nd October?

2 days earlier was the last day in September

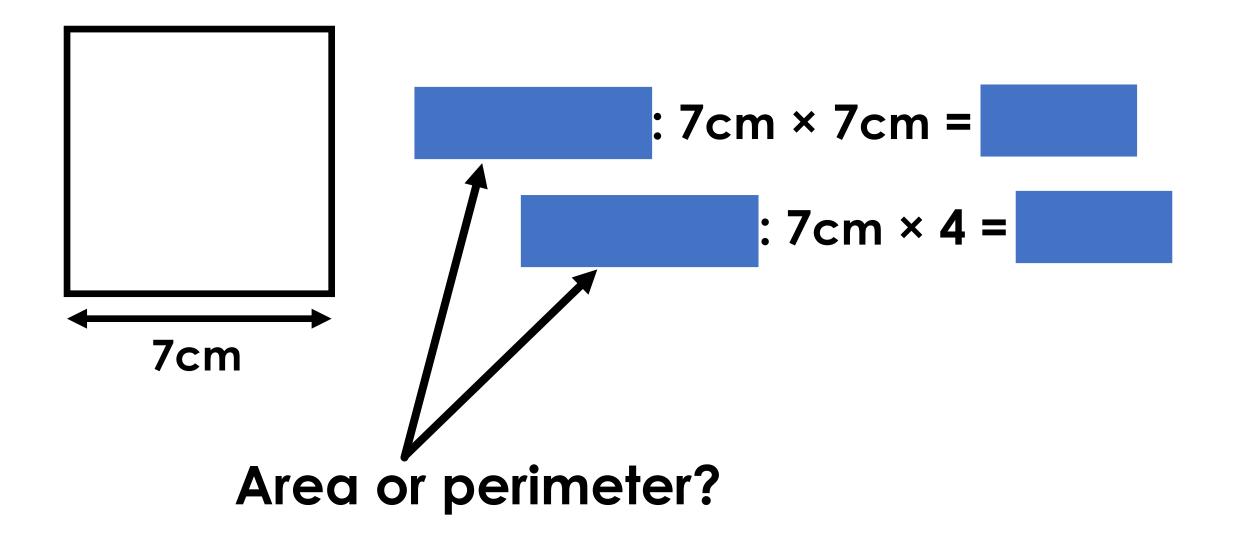
Answer: 25th September

Days: January: 31 February: **28-29** March: 31 April: **30** May: 31 June: 30 July: **31** August: 31 September: 30 October: 31 November: 30 December: 31



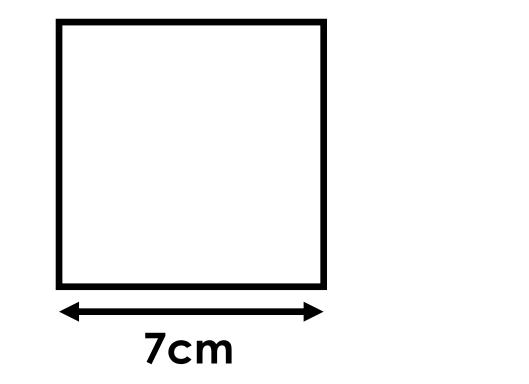


I SEE MATHS





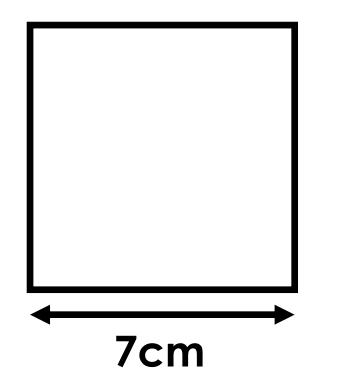
SEE MATHS





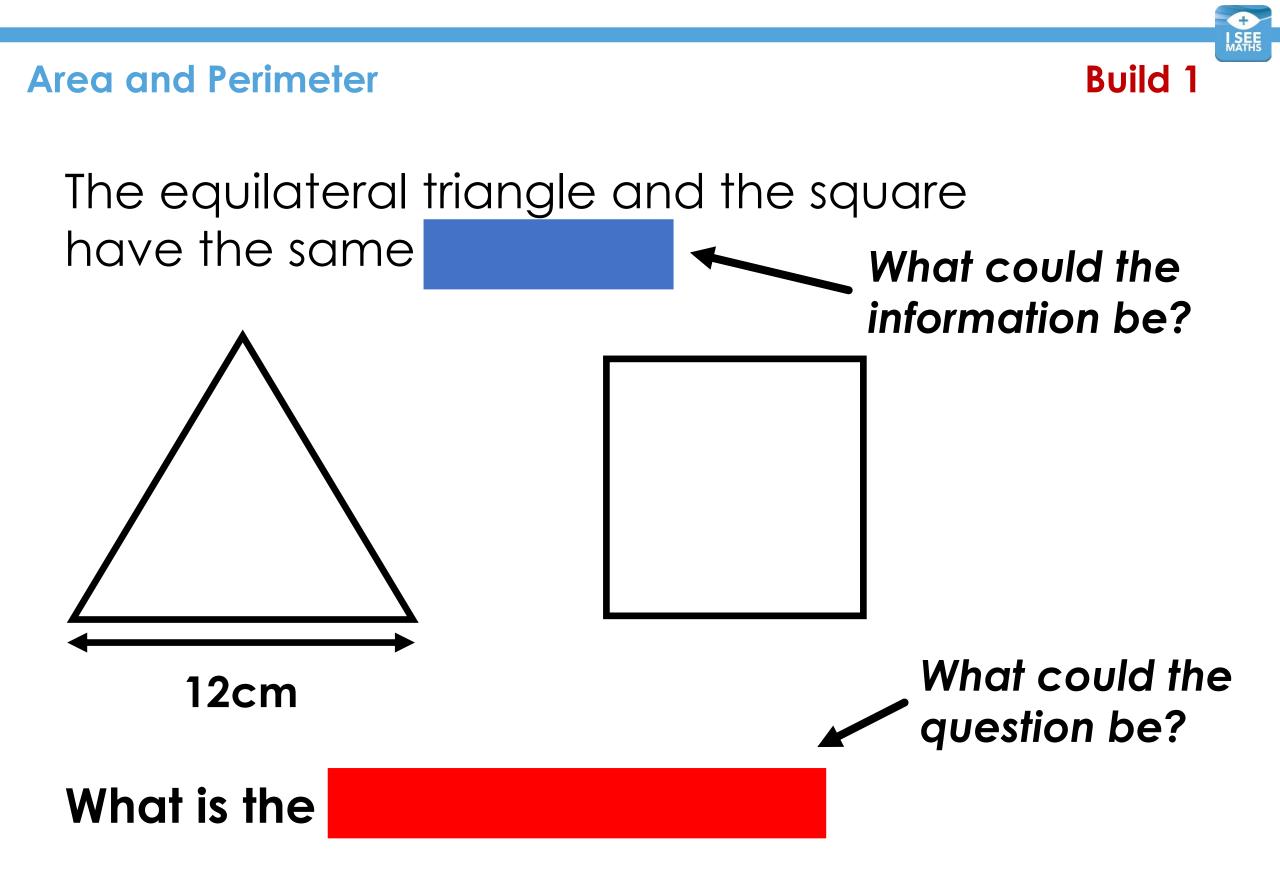
Perimeter: 7cm × 4 =





Area: 7cm × 7cm = 49cm²

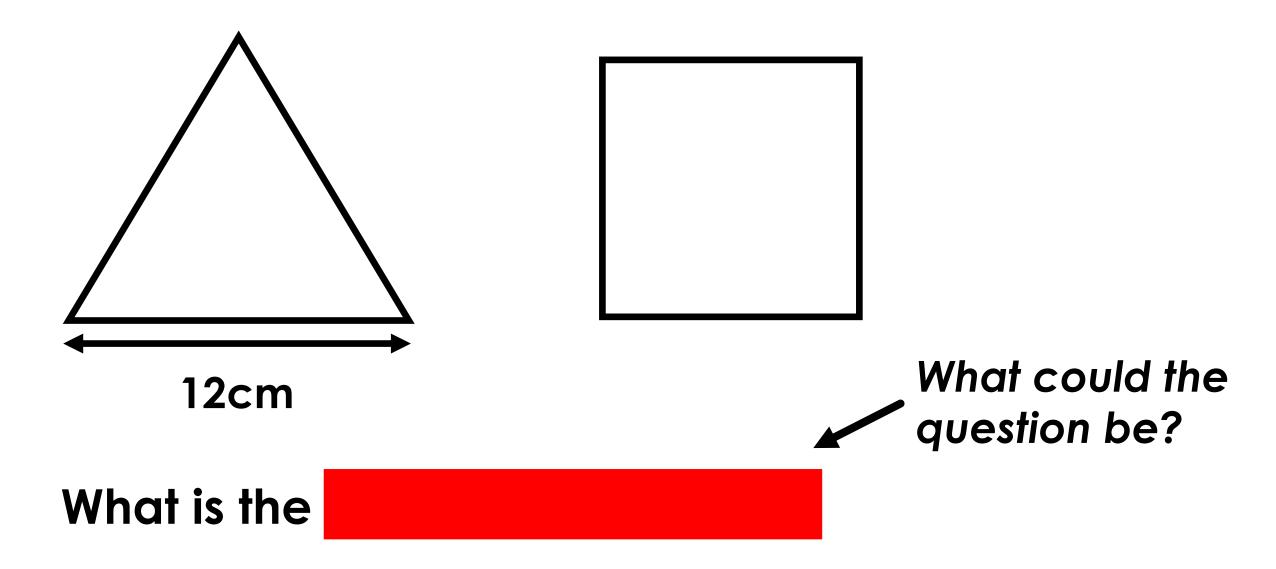
Perimeter: $7 \text{ cm} \times 4 = 28 \text{ cm}$



Build 1

Area and Perimeter

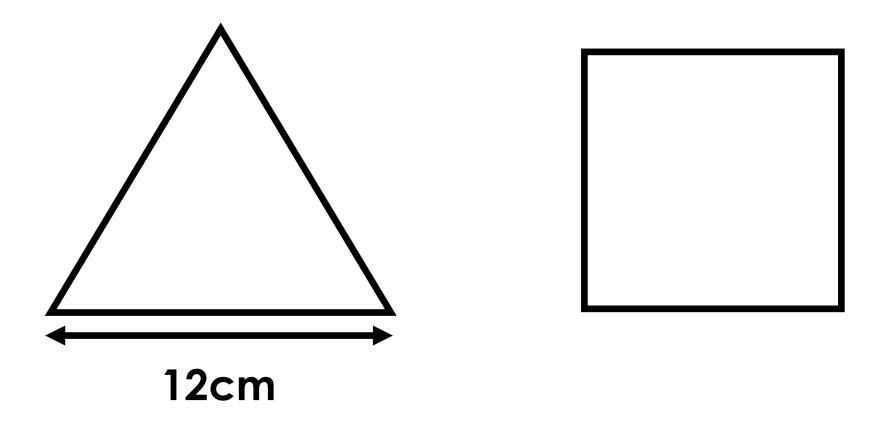
The equilateral triangle and the square have the same perimeter.



Build 1

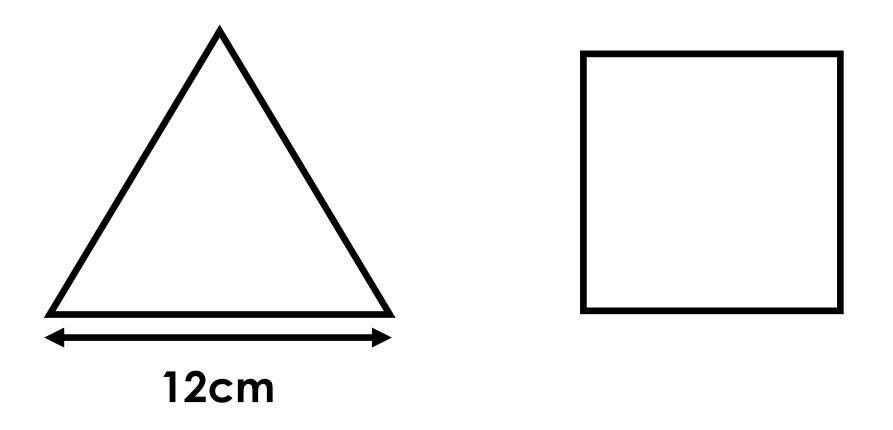
Area and Perimeter

The equilateral triangle and the square have the same perimeter.



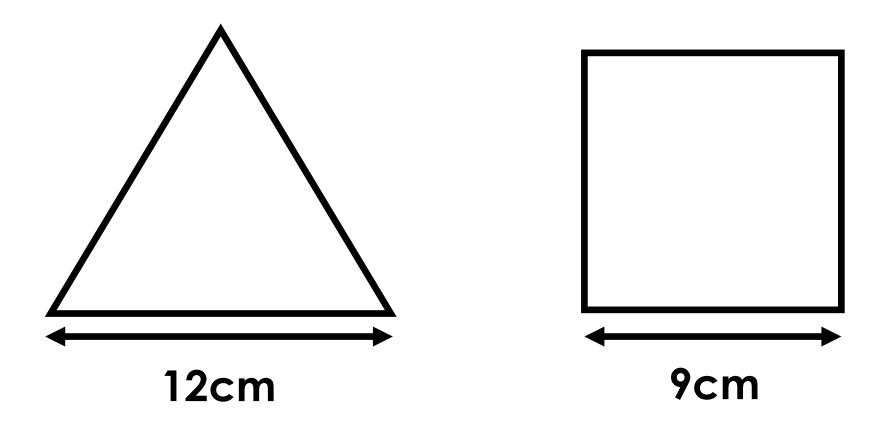


The equilateral triangle and the square have the same perimeter. **Perimeter = 36cm**





The equilateral triangle and the square have the same perimeter. **Perimeter = 36cm**



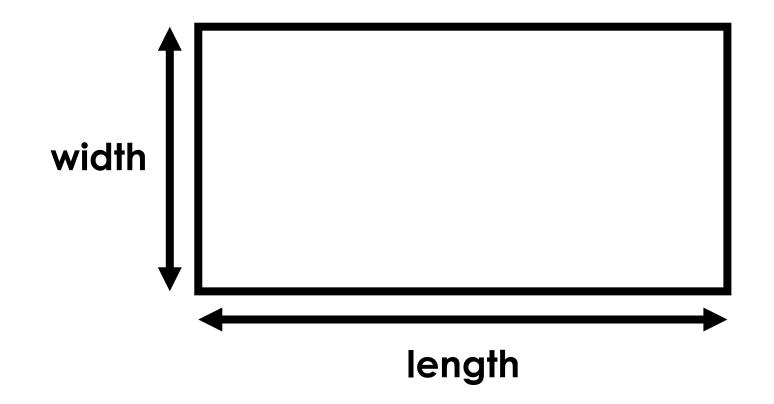
The equilateral triangle and the square have the same perimeter. **Perimeter = 36cm**

Area = 81cm²

Build 1

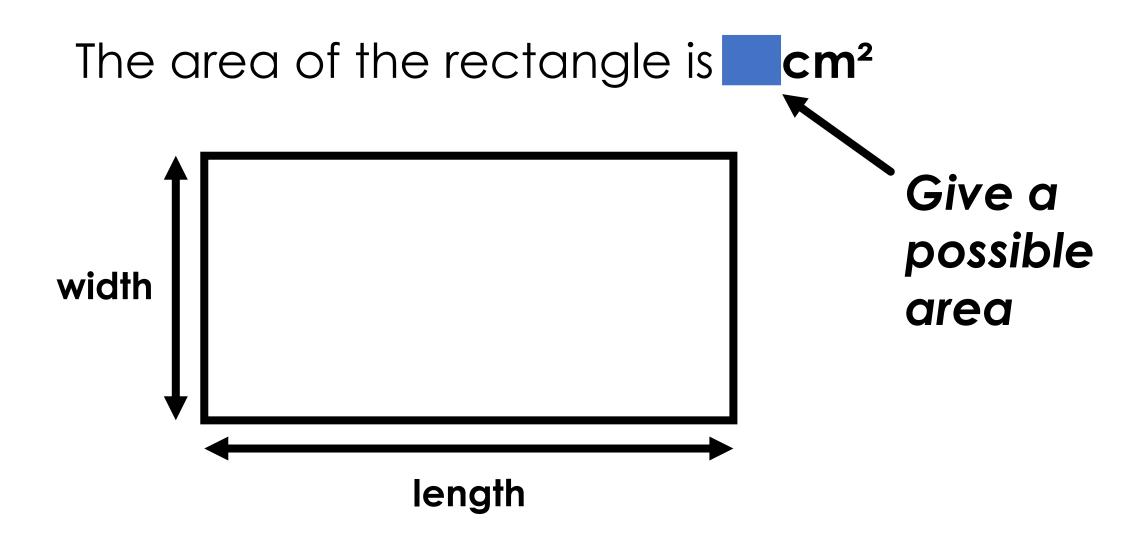


The length of the rectangle is double its width.





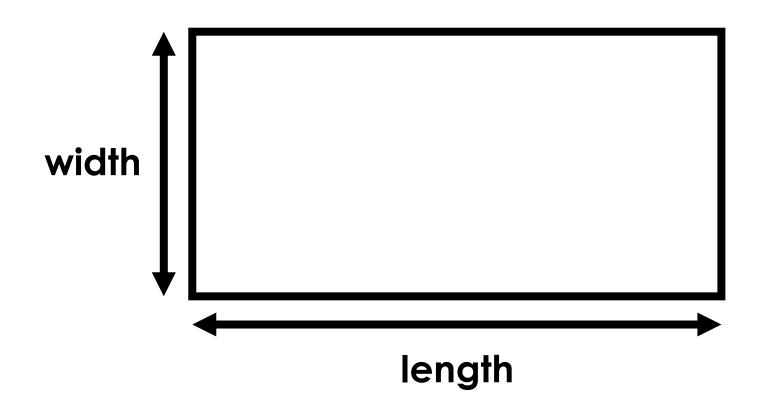
The length of the rectangle is double its width.





The length of the rectangle is double its width.

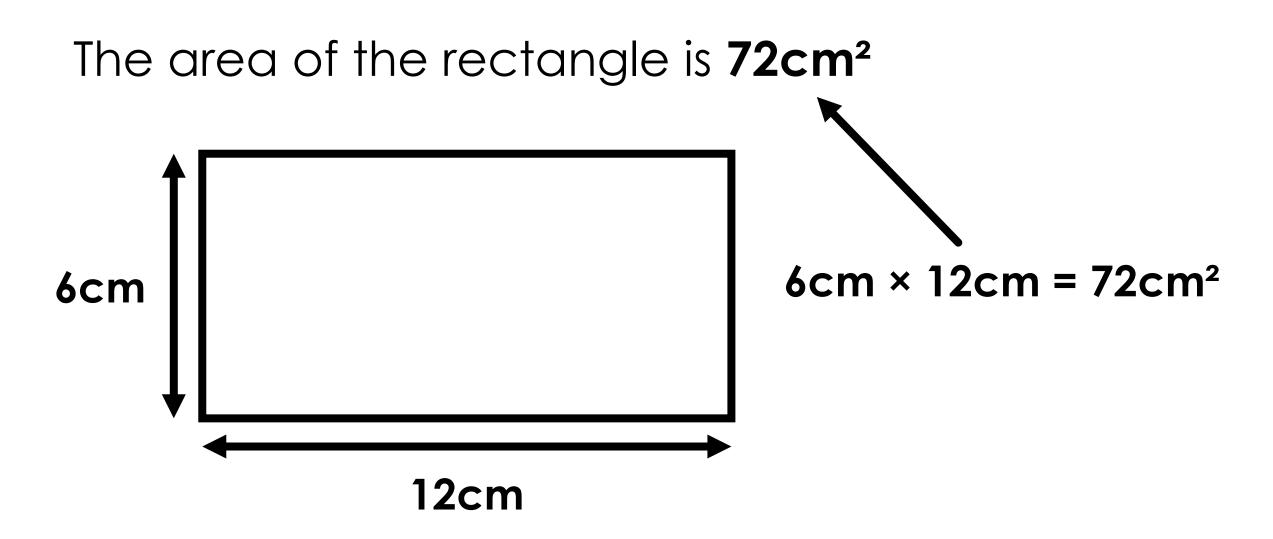
The area of the rectangle is 72cm²







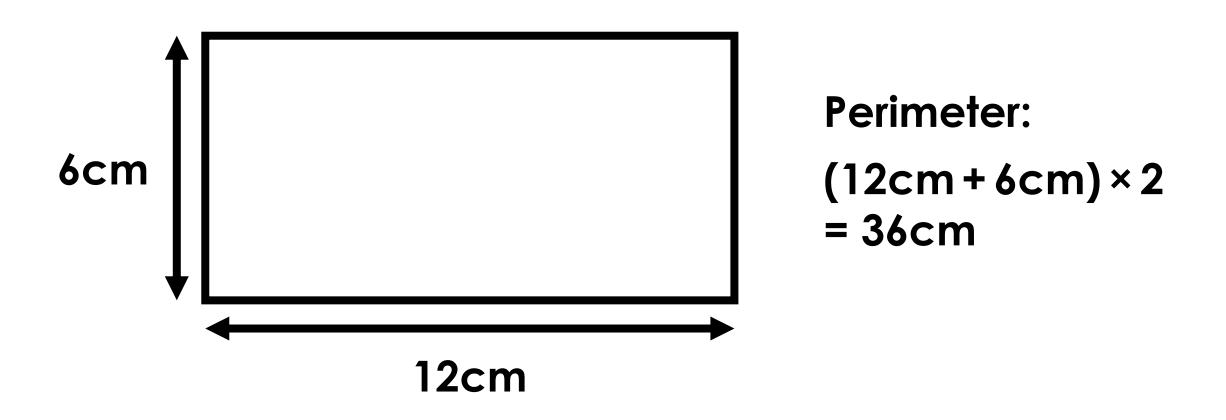
The length of the rectangle is double its width.





The length of the rectangle is double its width.

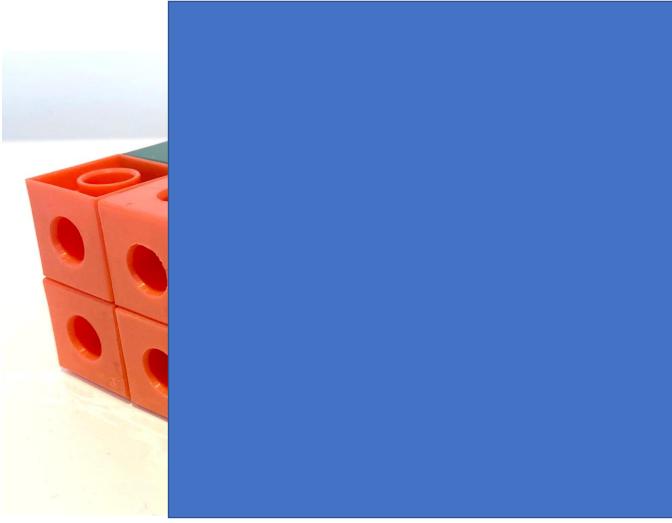
The area of the rectangle is 72cm²





Build 1





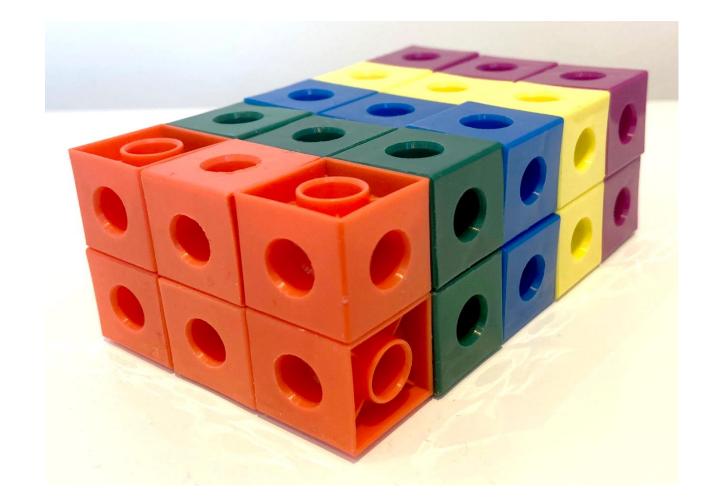
The cuboid is made using **30 cubes**.

What are the dimensions of the cuboid?

Volume



Build 1



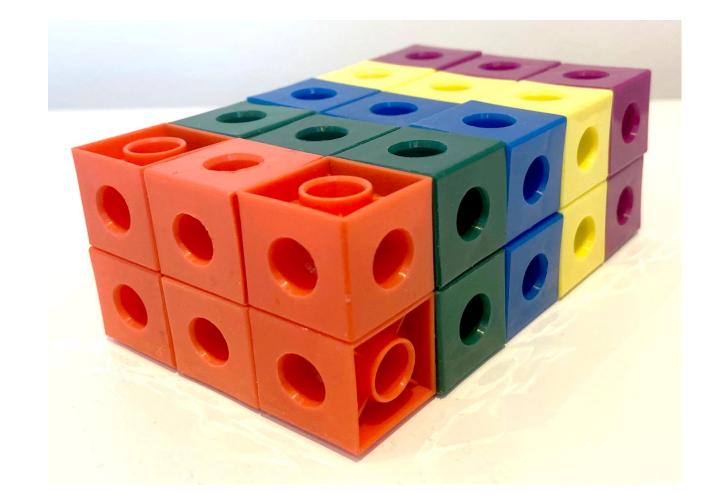
The cuboid is made using **30 cubes**.

What are the dimensions of the cuboid?

Volume



Build 1

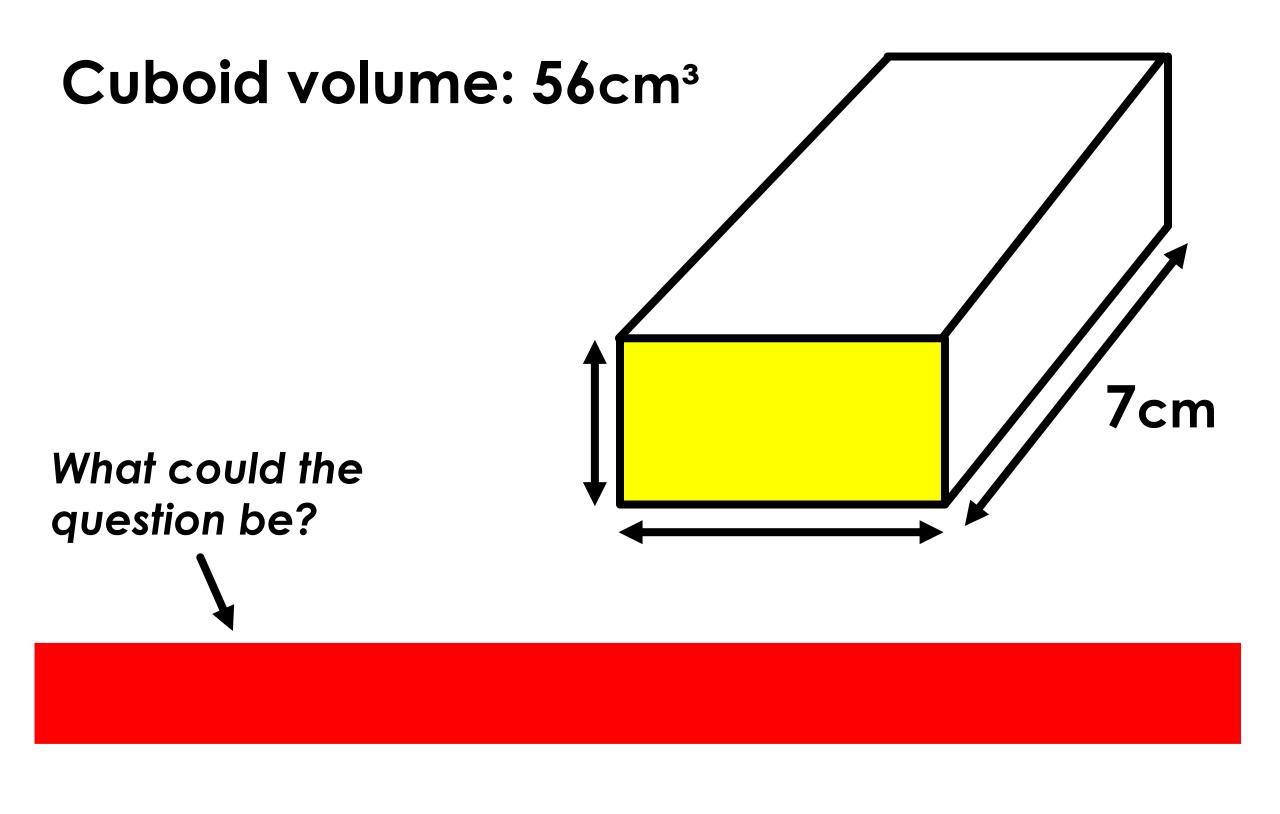


The cuboid is made using **30 cubes**.

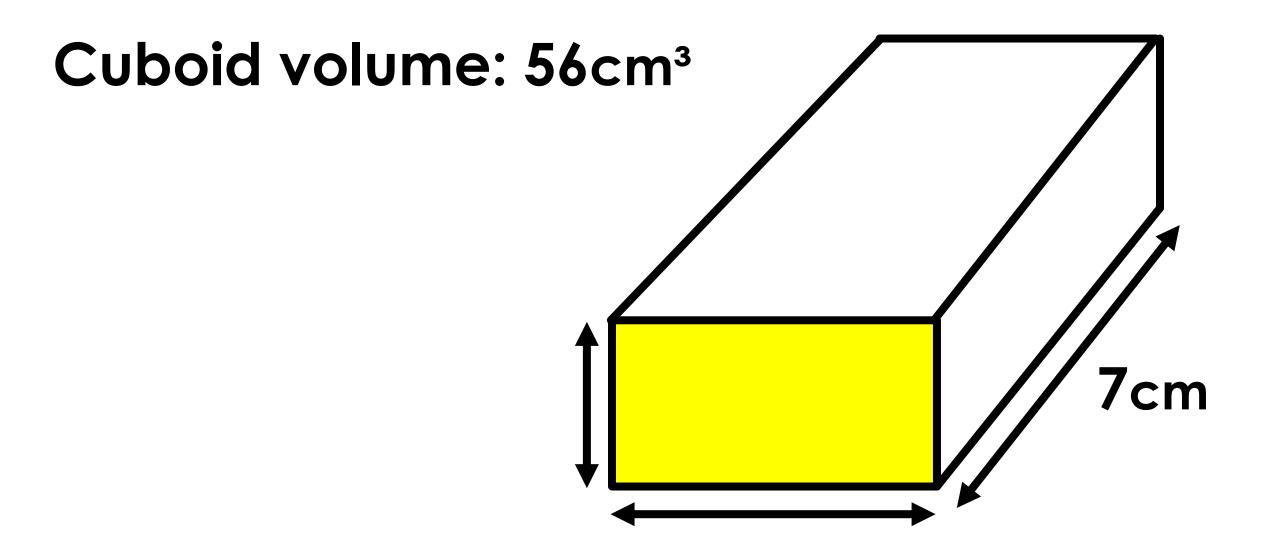
What are the dimensions of the cuboid?

dimensions $2 \times 3 \times 5 = 30$



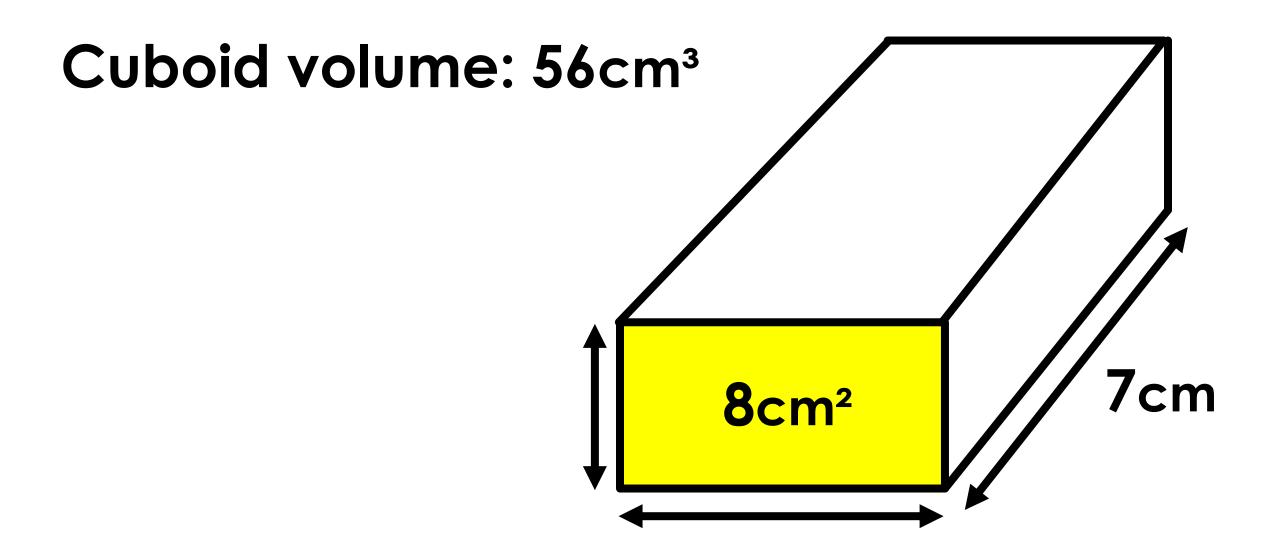




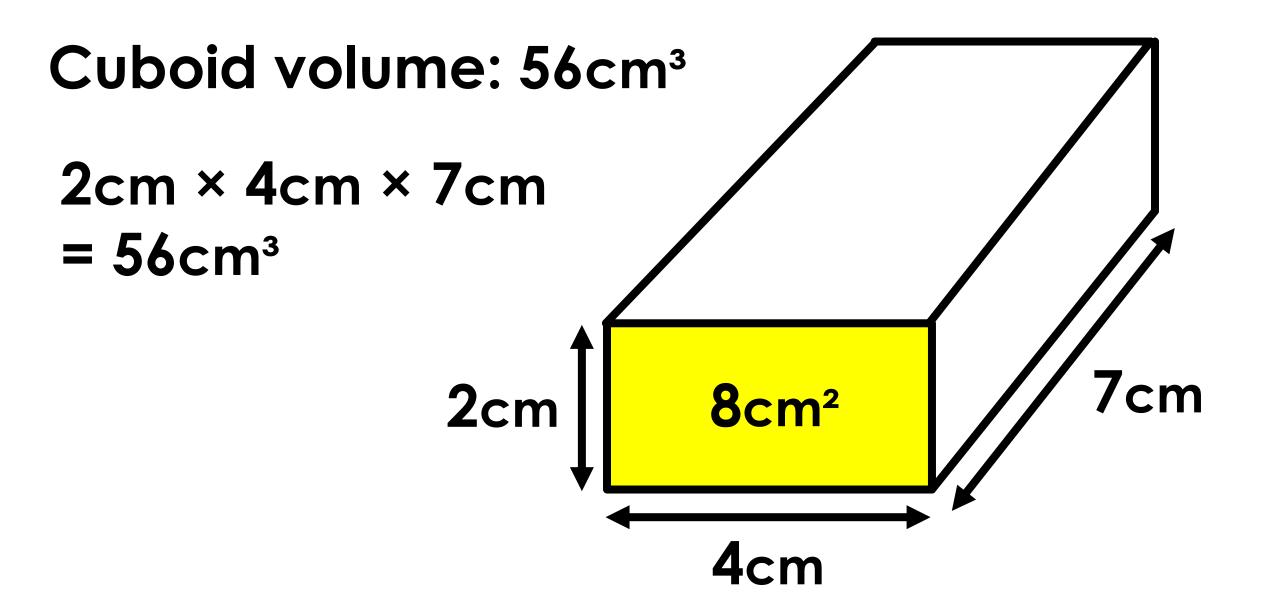


What is the area of the yellow rectangular face?





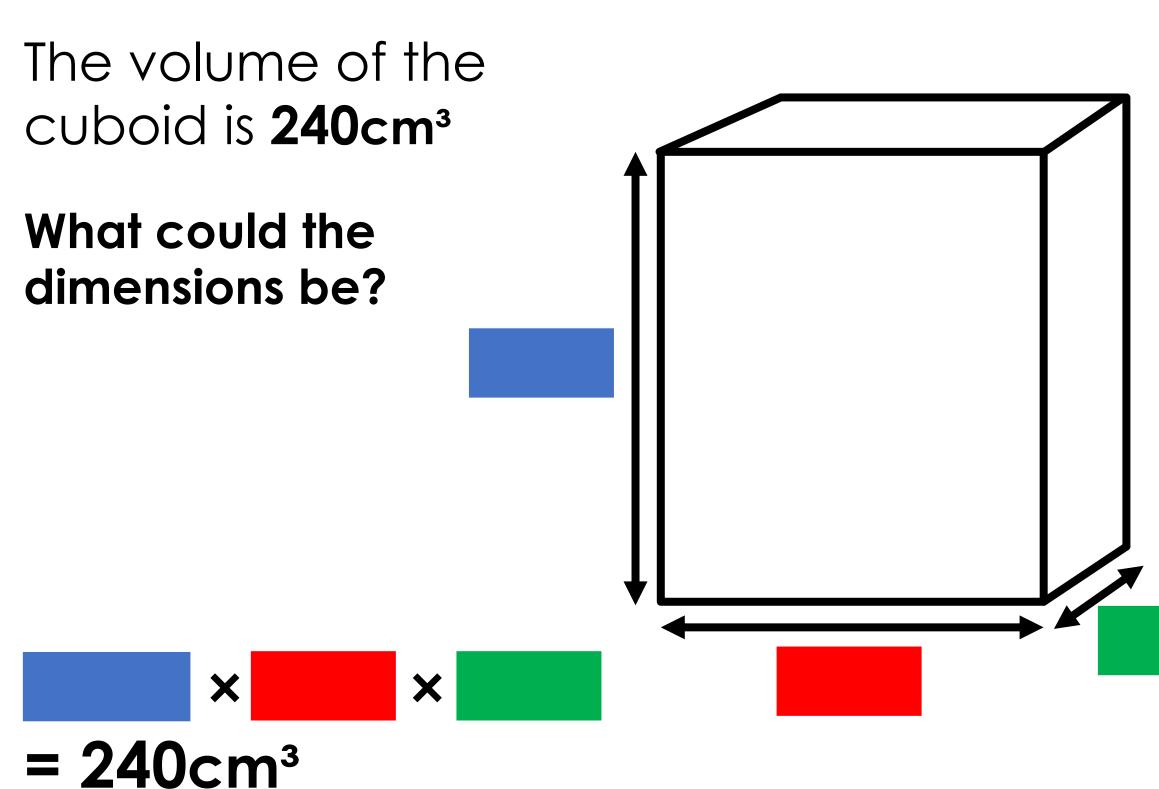
What is the area of the yellow rectangular face?



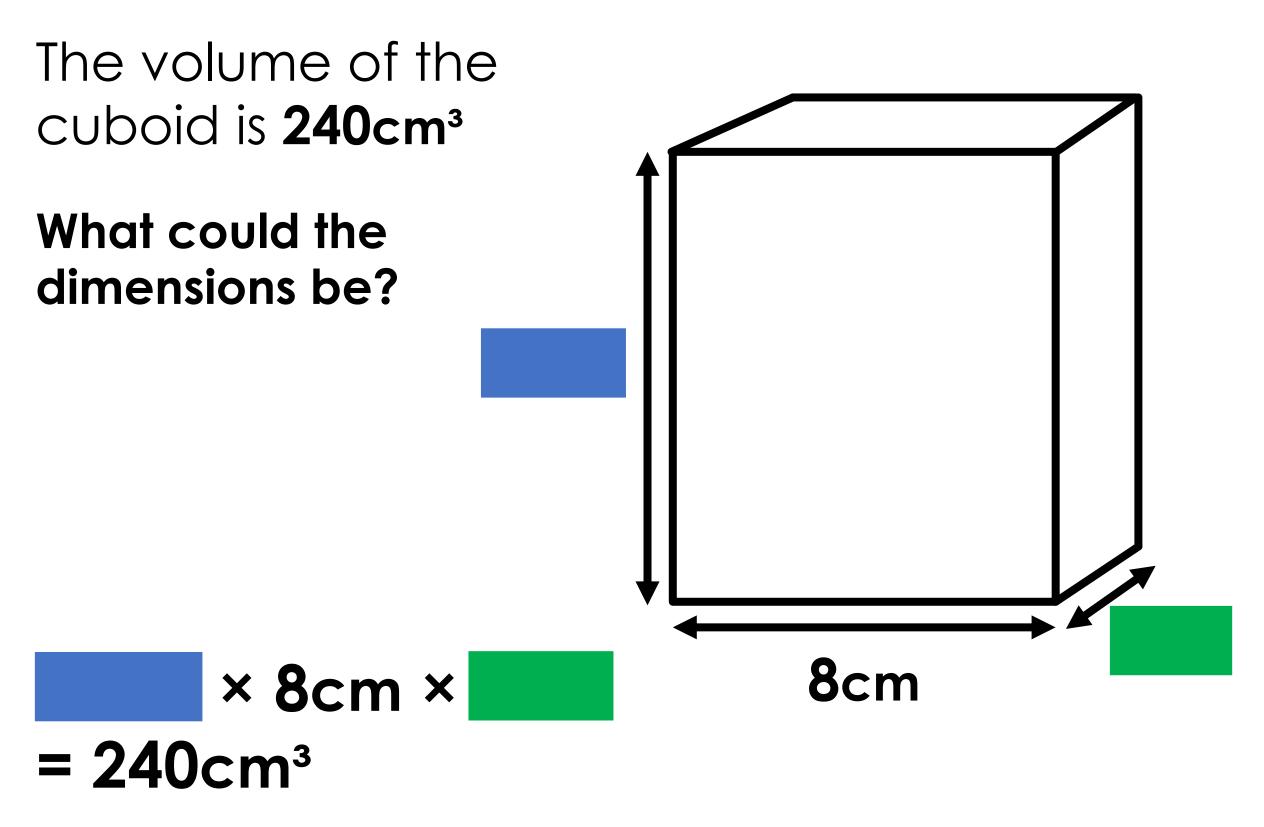
Build 2

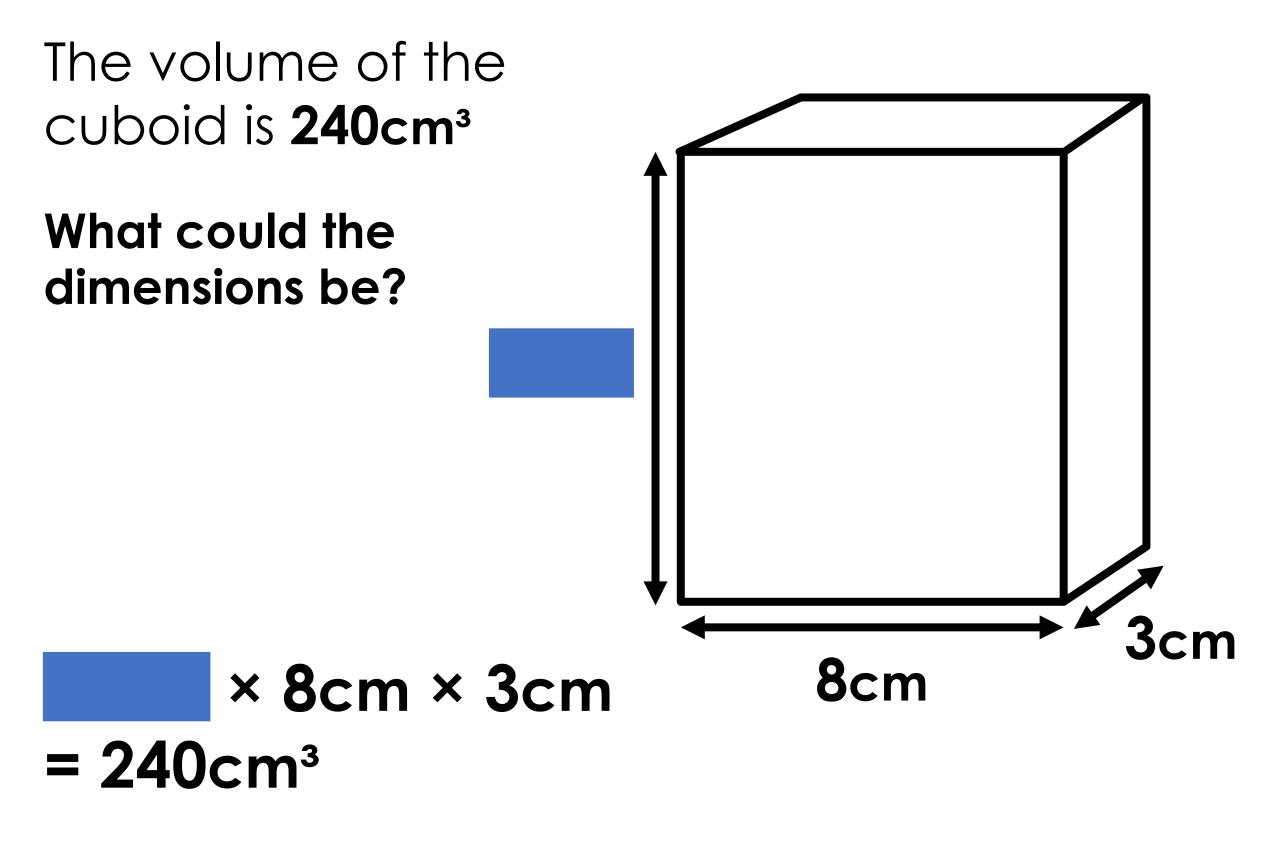
What is the area of the yellow rectangular face?



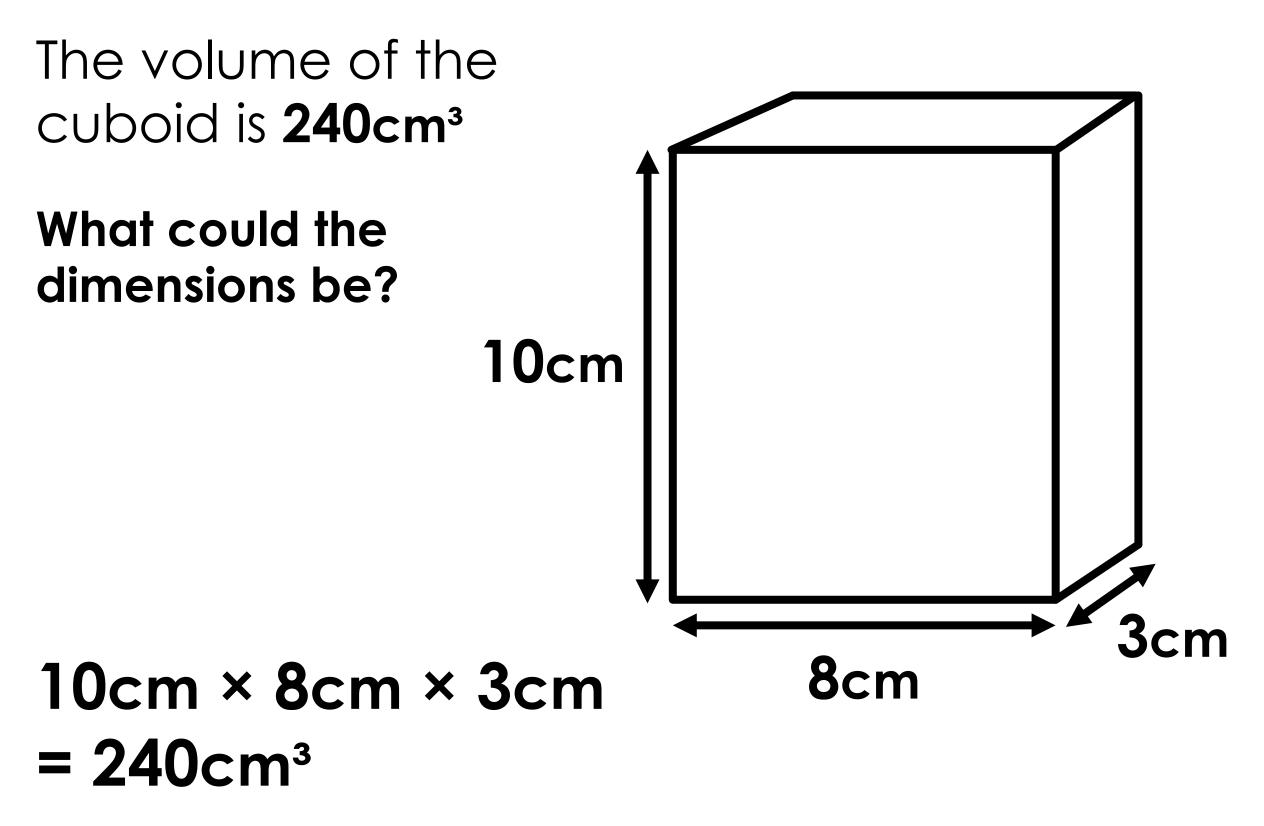




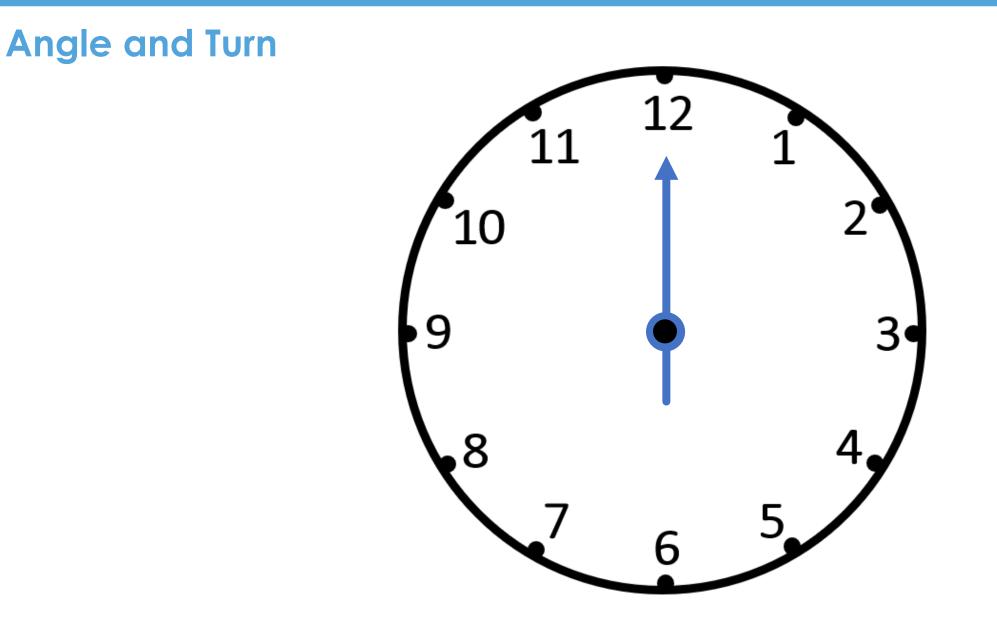








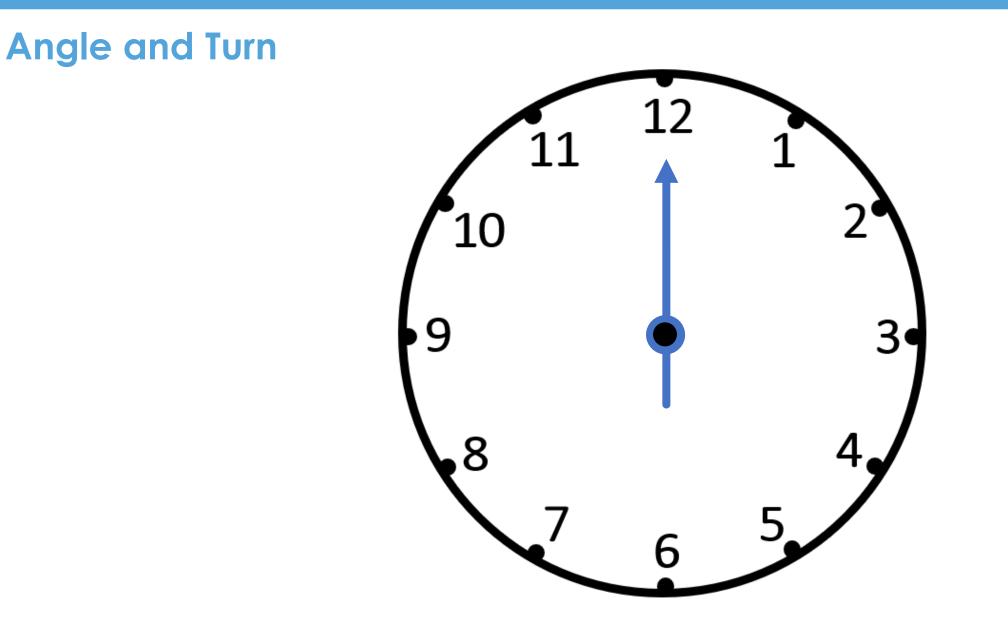




When the spinner turns

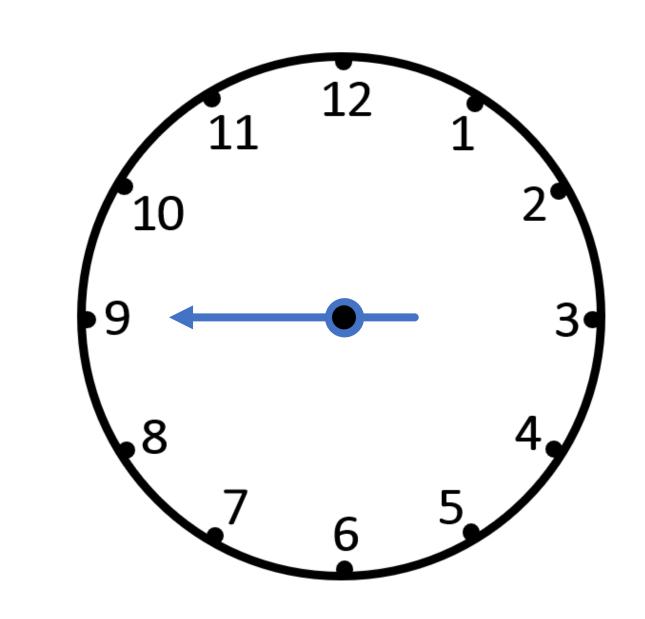
it will point at the number





When the spinner turns **270° clockwise**, it will point at the number

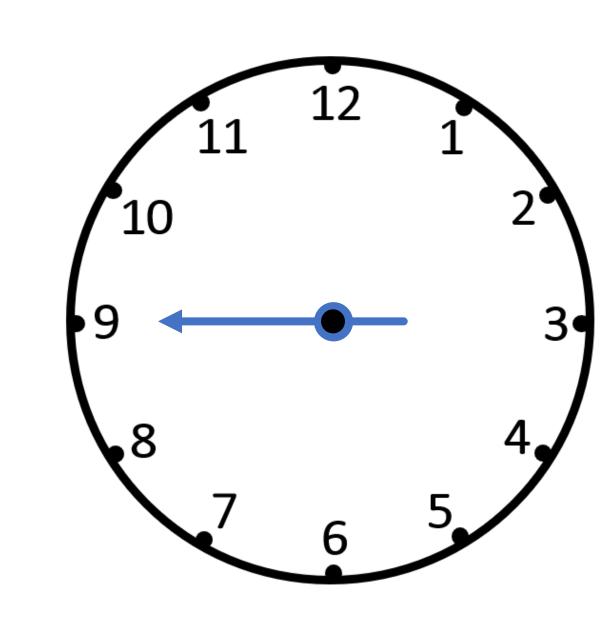




Angle and Turn

When the spinner turns **270° clockwise**, it will point at the number **9**





When the spinner turns

Angle and Turn

it will point at the number



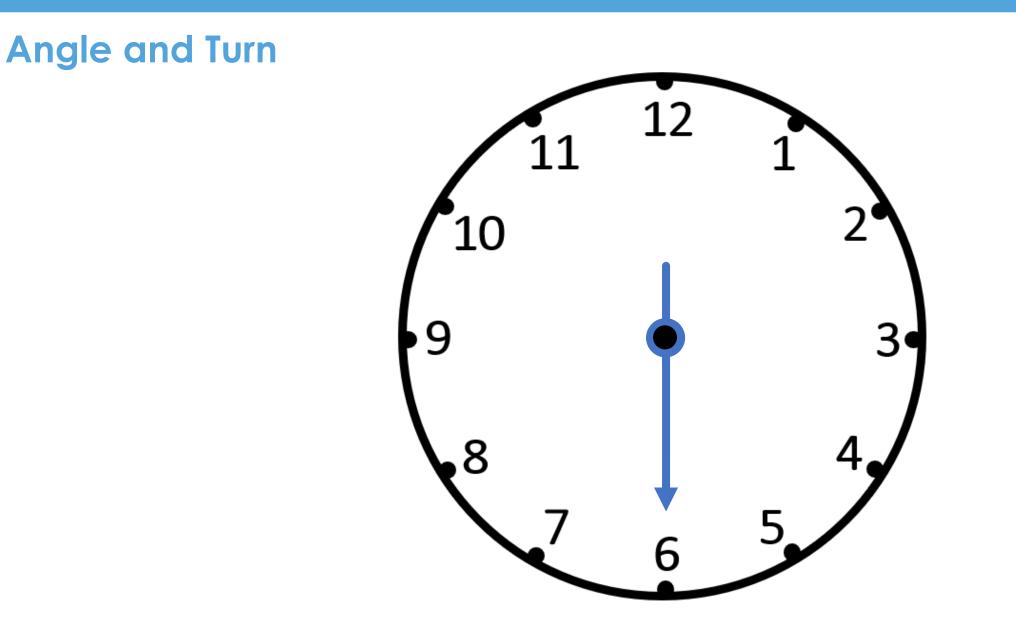
12 10 9 8 6

When the spinner turns

Angle and Turn

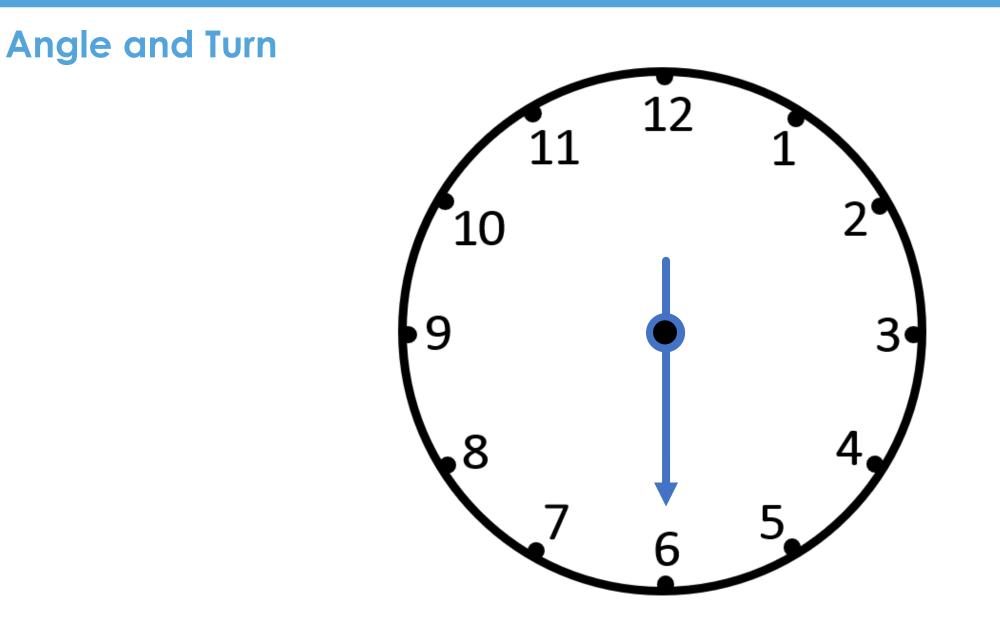
it will point at the number 6





When the spinner turns **90° anticlockwise**, it will point at the number **6**

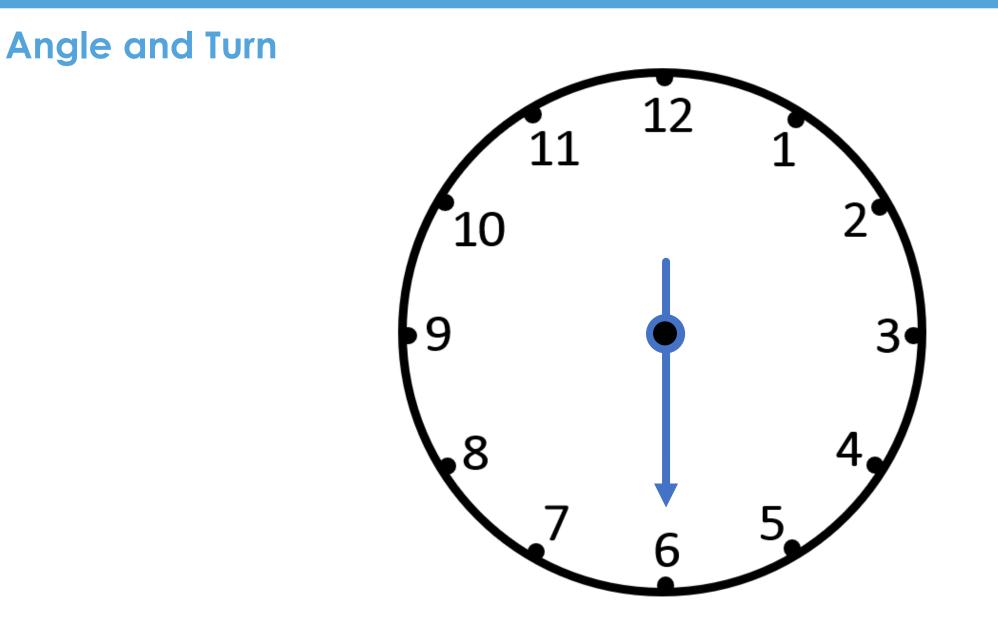




When the spinner turns

it will point at the number

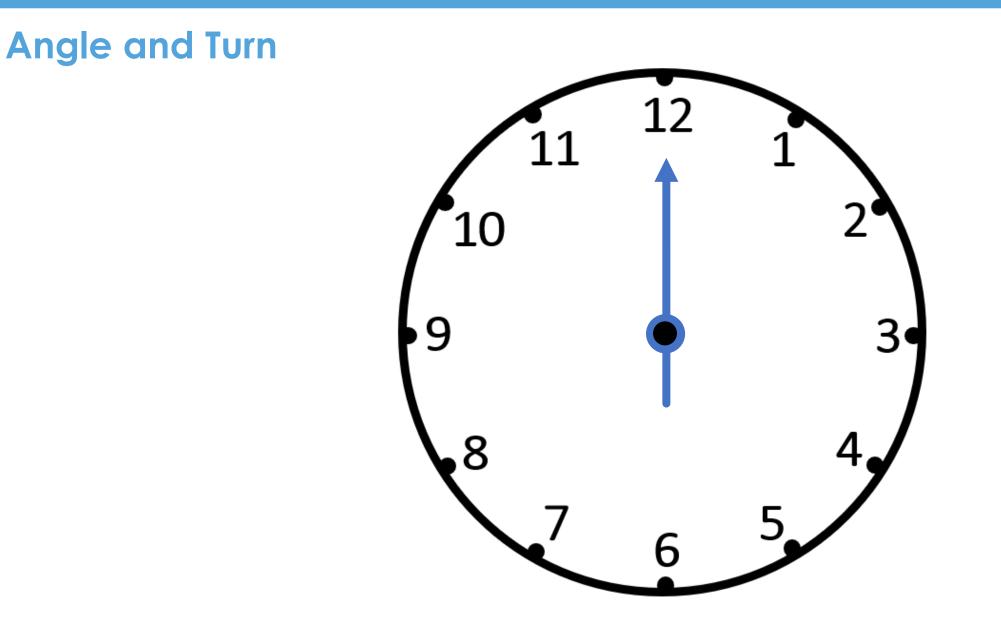




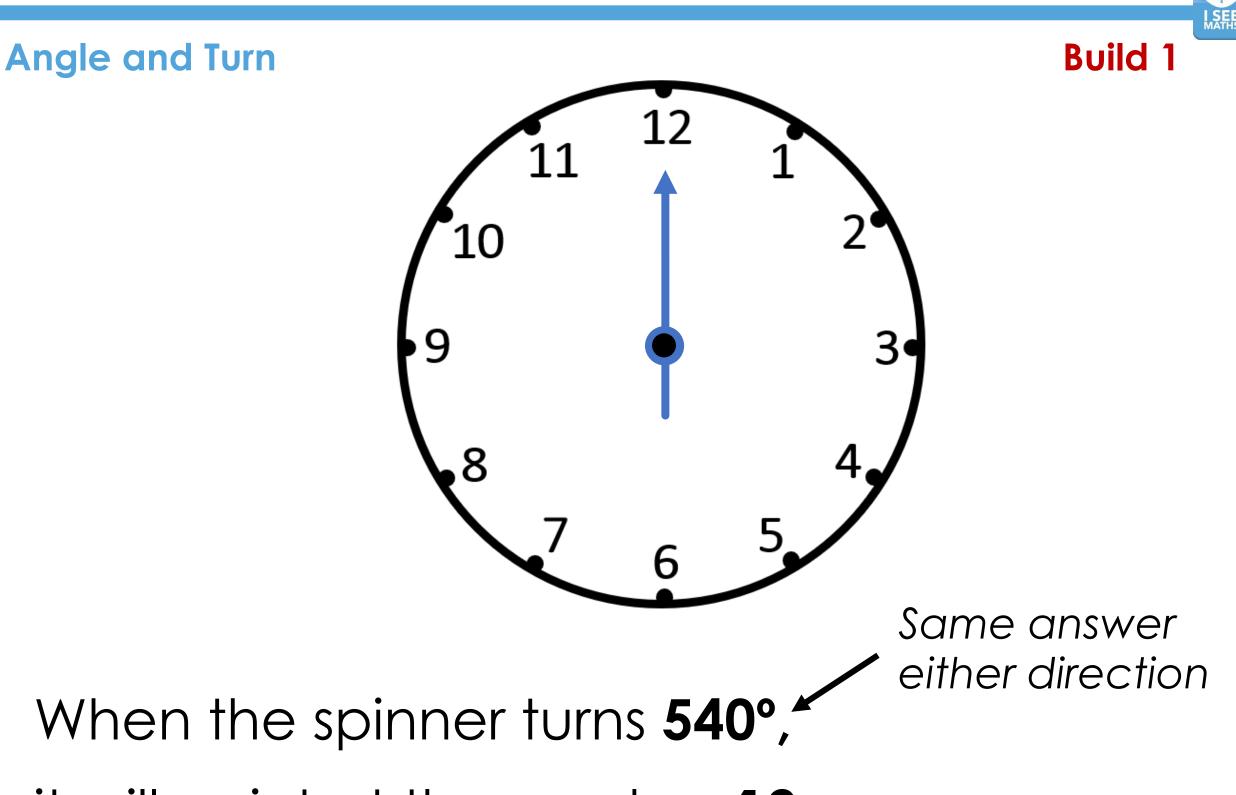
When the spinner turns

it will point at the number 12





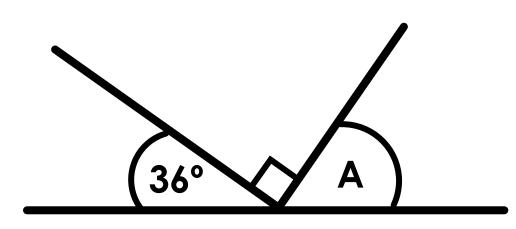
When the spinner turns **540°**, it will point at the number **12**

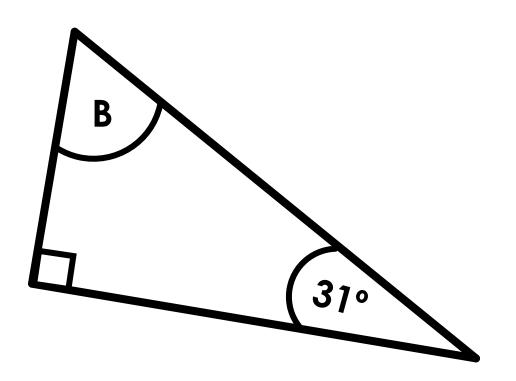


it will point at the number 12

Angle and Turn



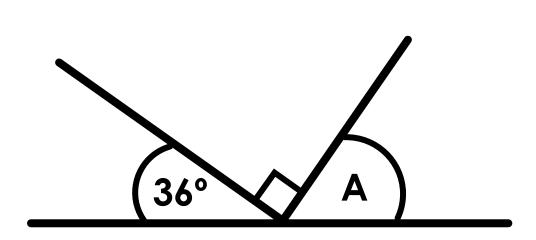


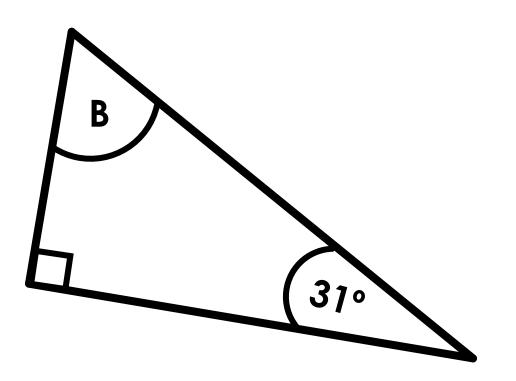


What's the same? What's different?





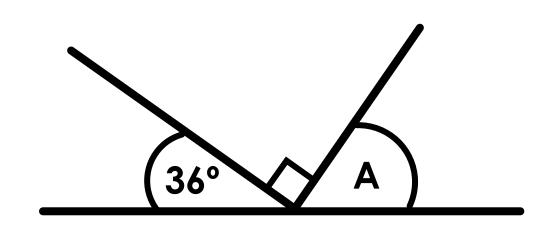


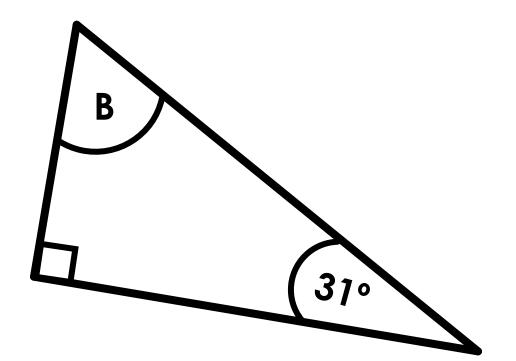


Angle A is **larger/smaller** than angle B. **Explain.**

A = 54°

180° - (90° + 36°) = 54°



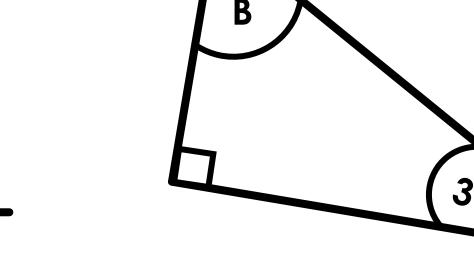






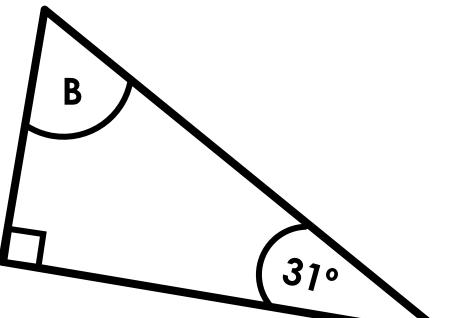
$A = 54^{\circ}$

- $180^{\circ} (90^{\circ} + 36^{\circ})$ = 54°
- 36°



= 59°

 $B = 59^{\circ}$



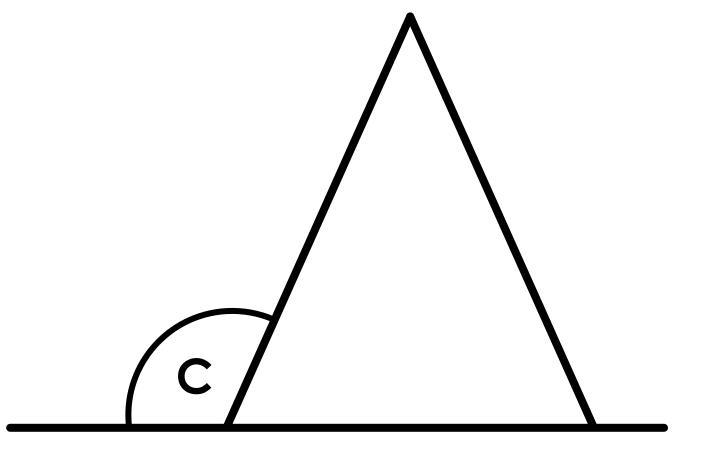
 $180^{\circ} - (90^{\circ} + 31^{\circ})$

Angle and Turn



Angle and Turn



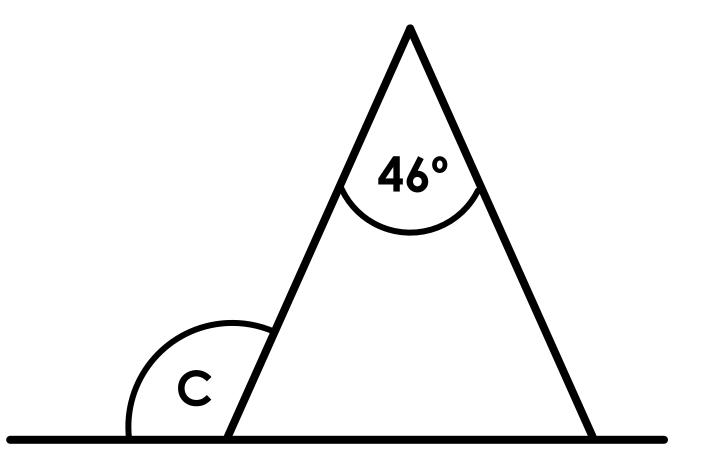


Calculate angle C.

Estimate the size of angle C. To calculate angle C, I need to know...

Angle and Turn





Calculate angle C.

Estimate the size of angle C. To calculate angle C, I need to know...





This is an isosceles triangle.

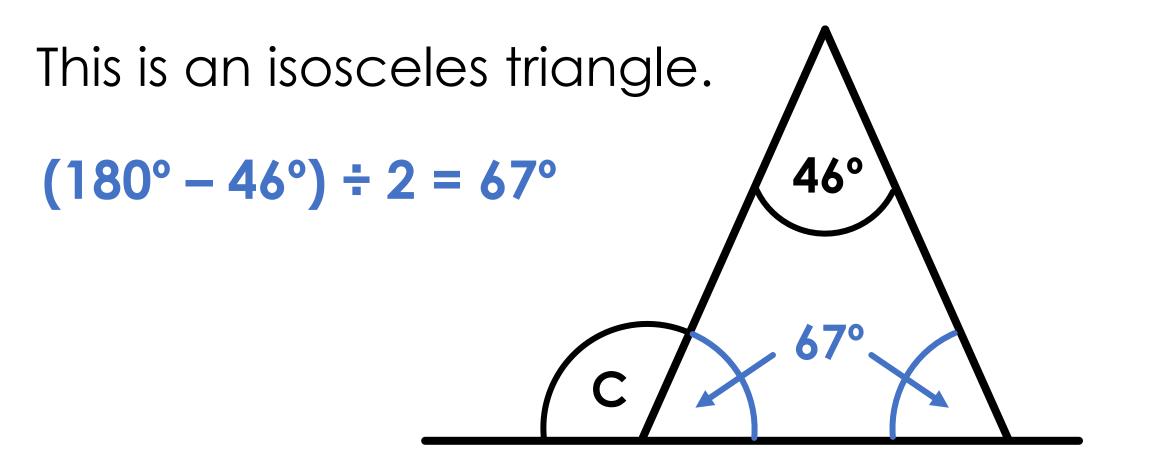
Calculate angle C.

C

46°



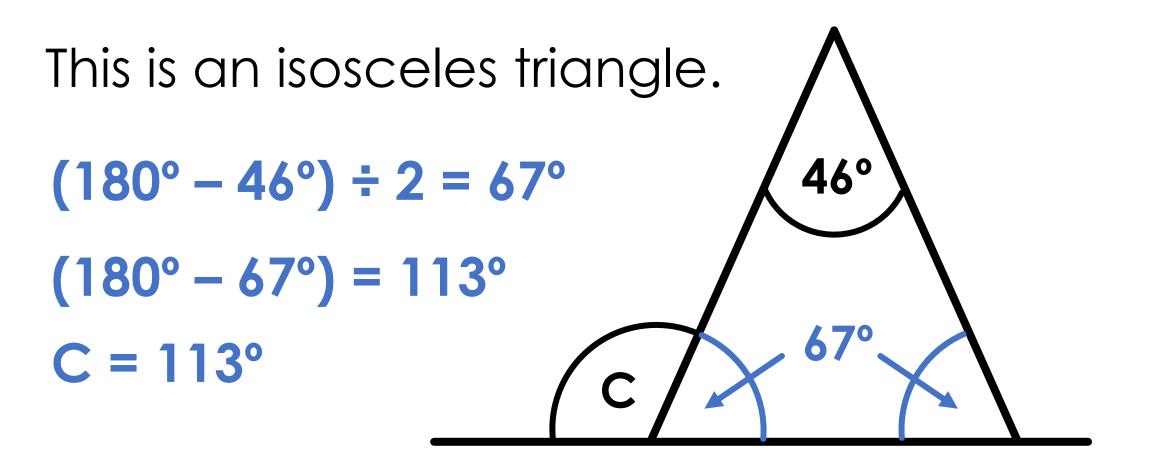
Angle and Turn



Calculate angle C.



Angle and Turn

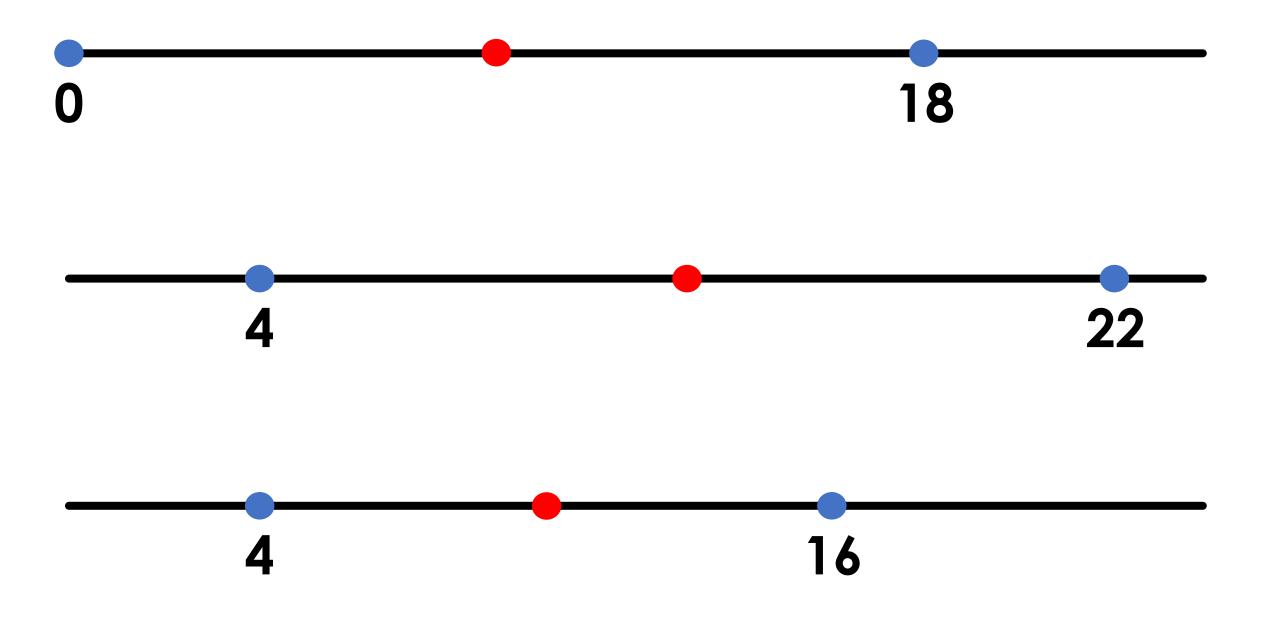


Calculate angle C.



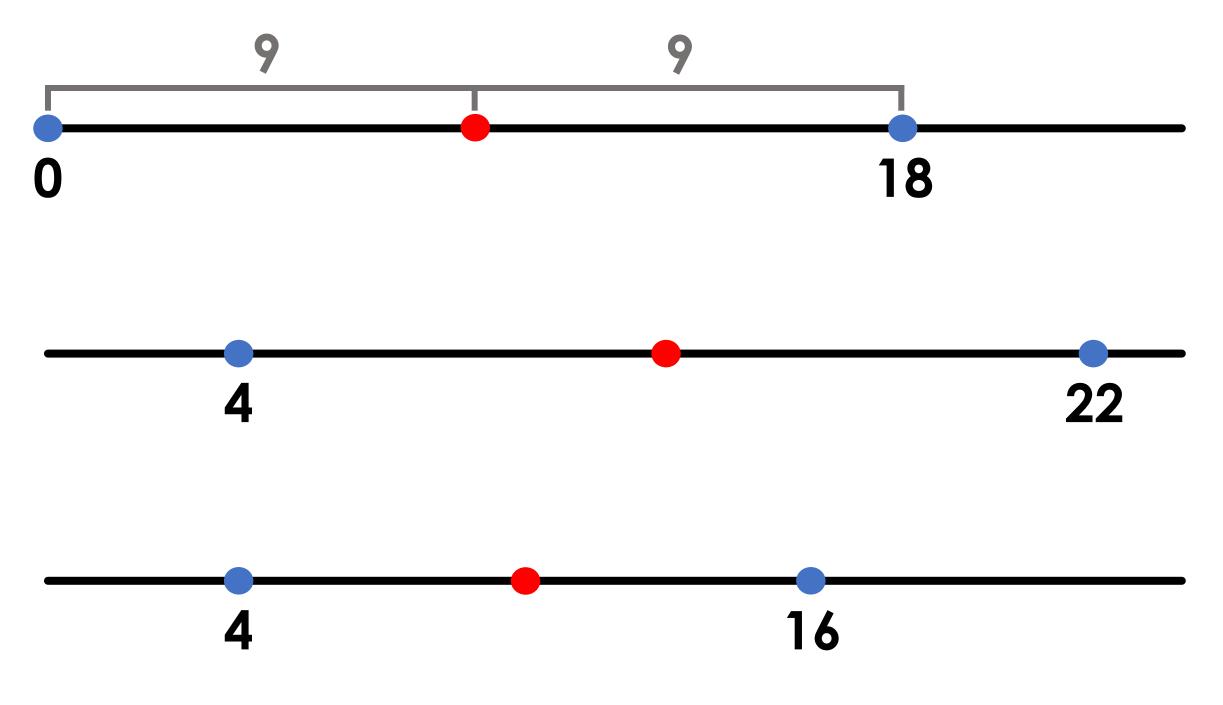


I SEE



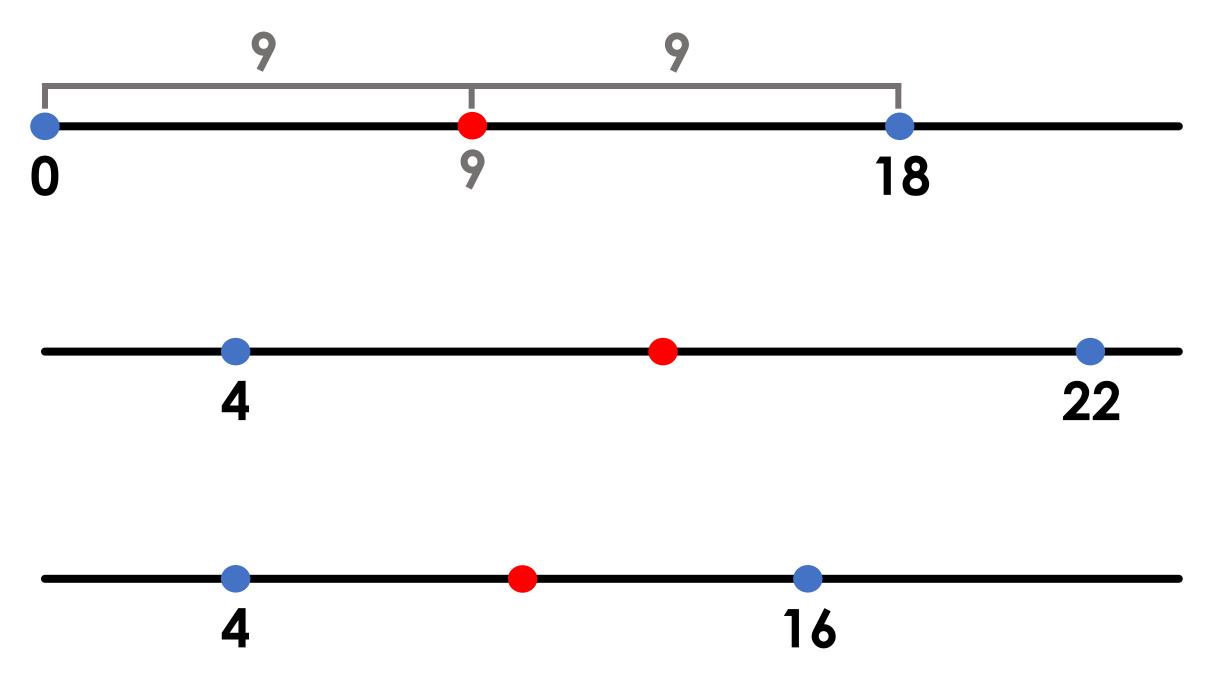


Build 1



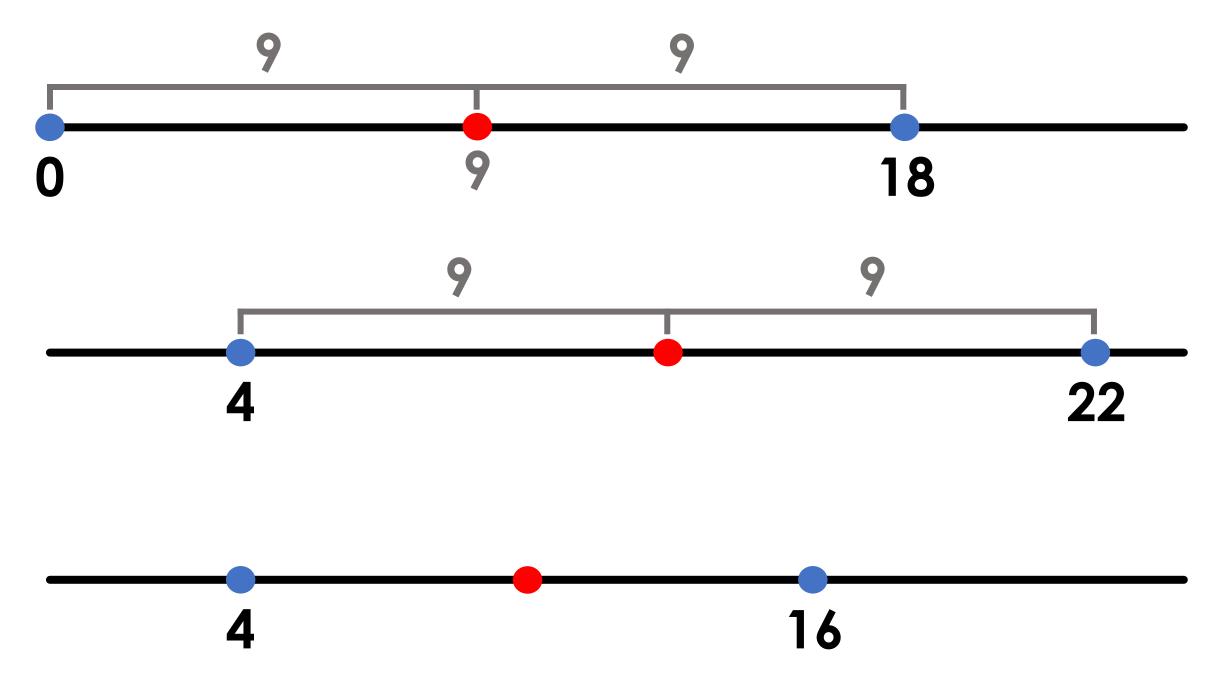


Build 1



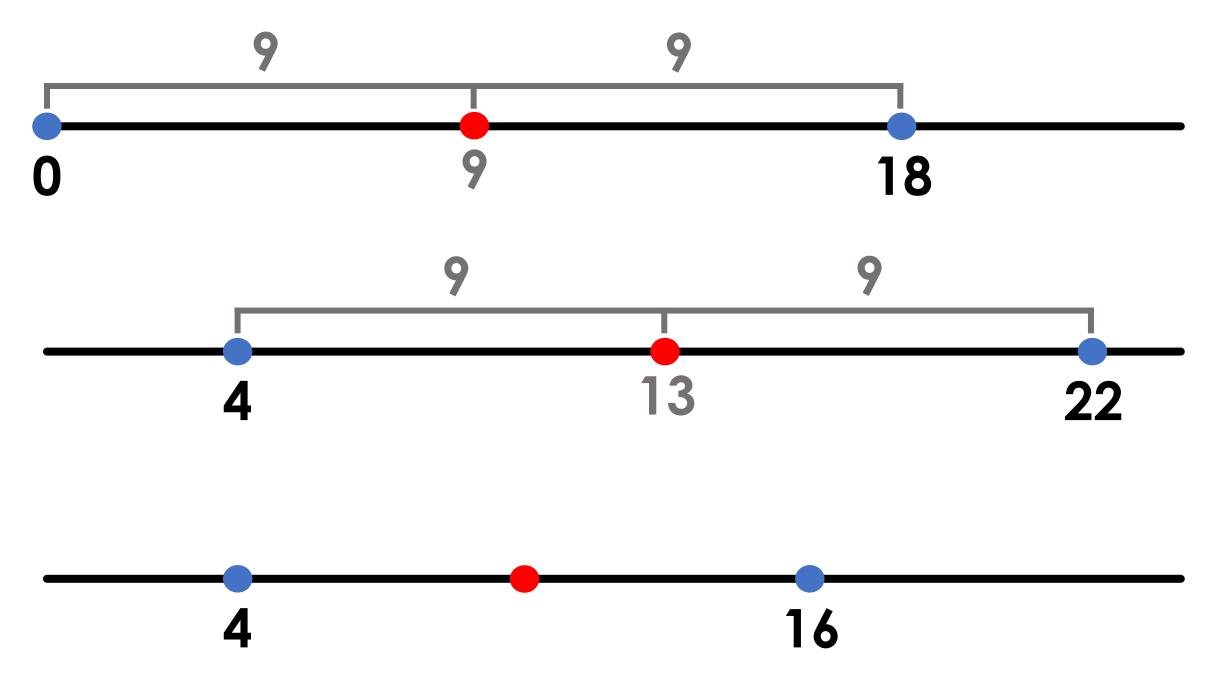


Build 1



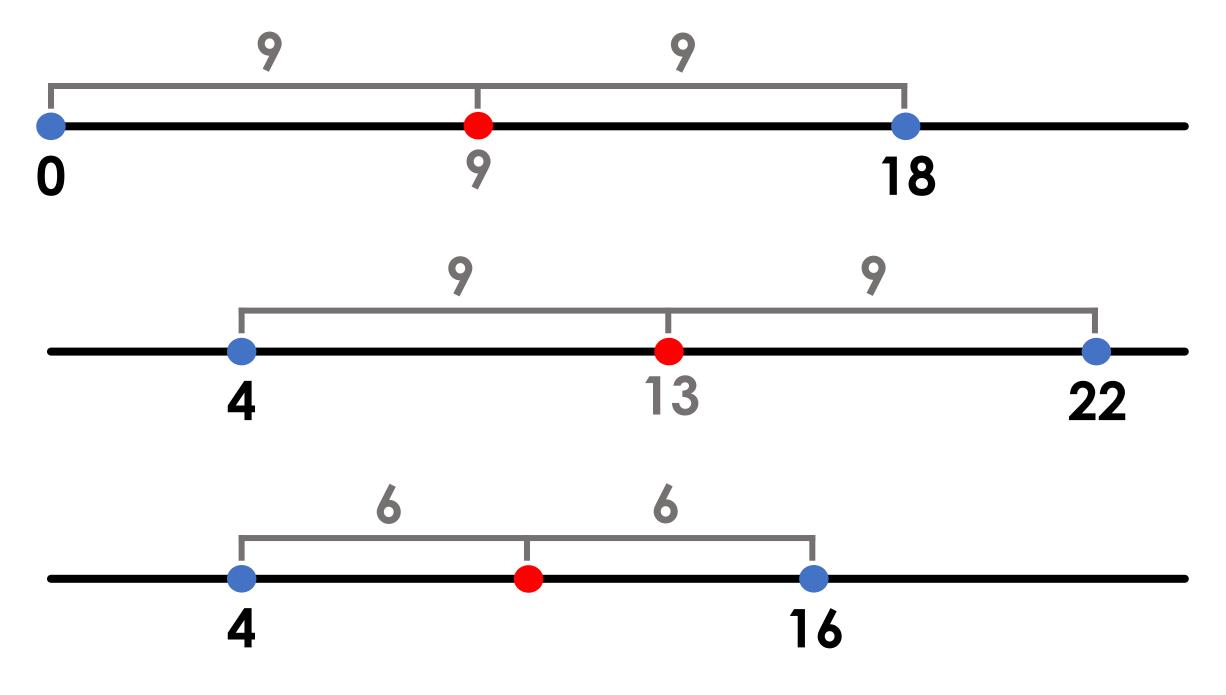


Build 1



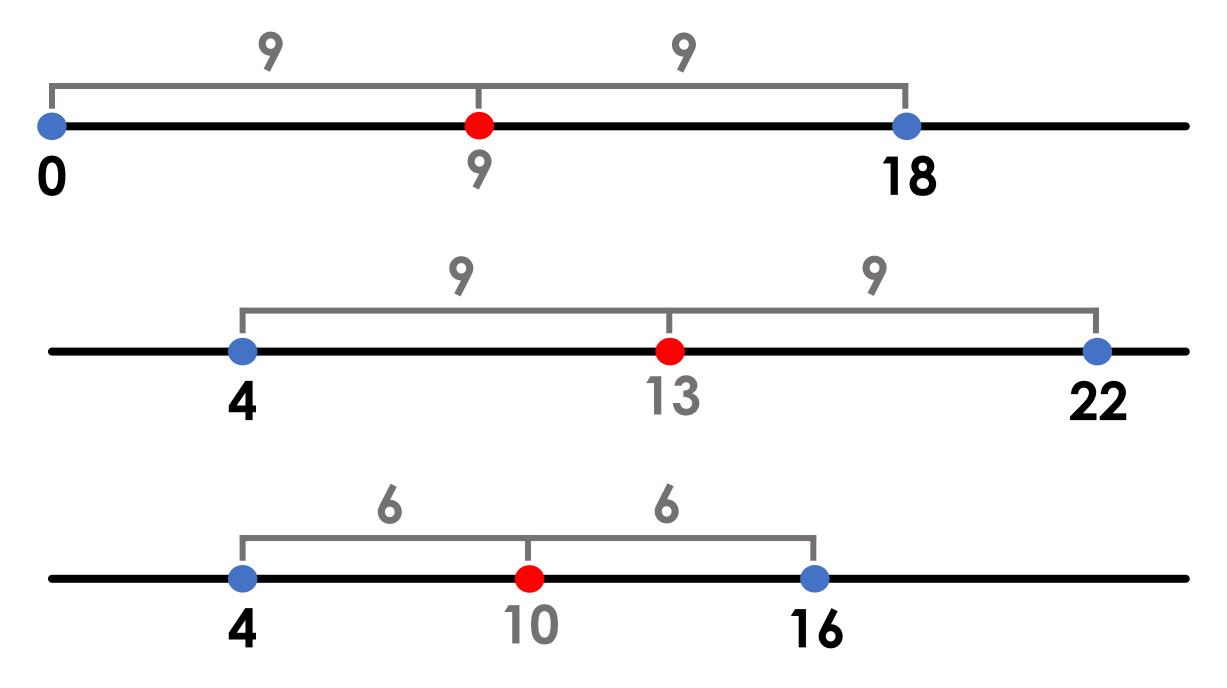


Build 1





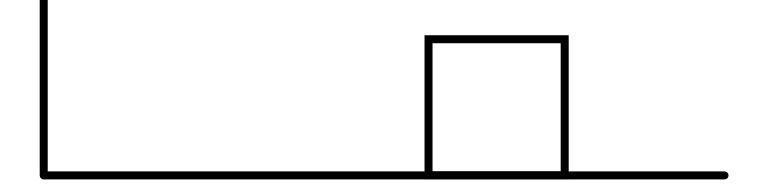
Build 1



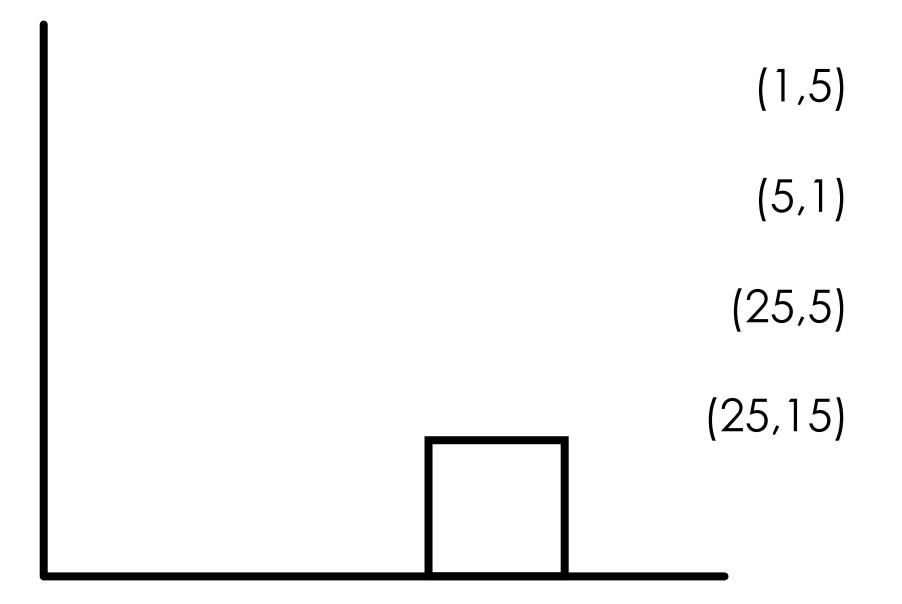




Which coordinates could be inside the square?



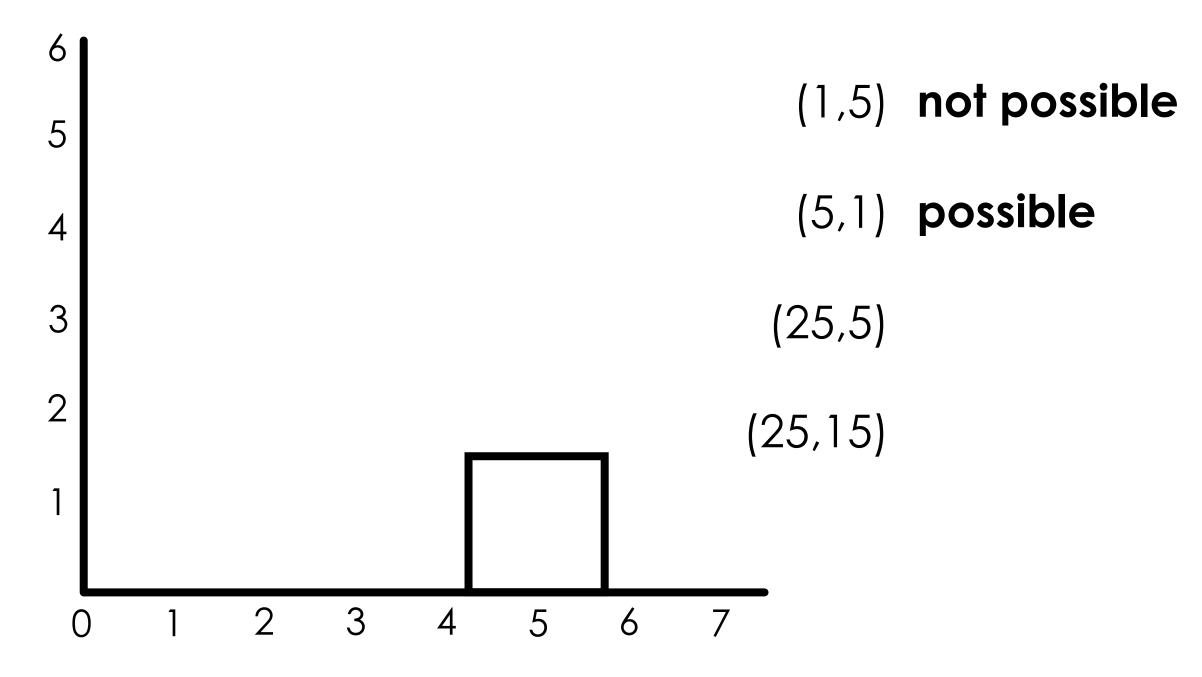






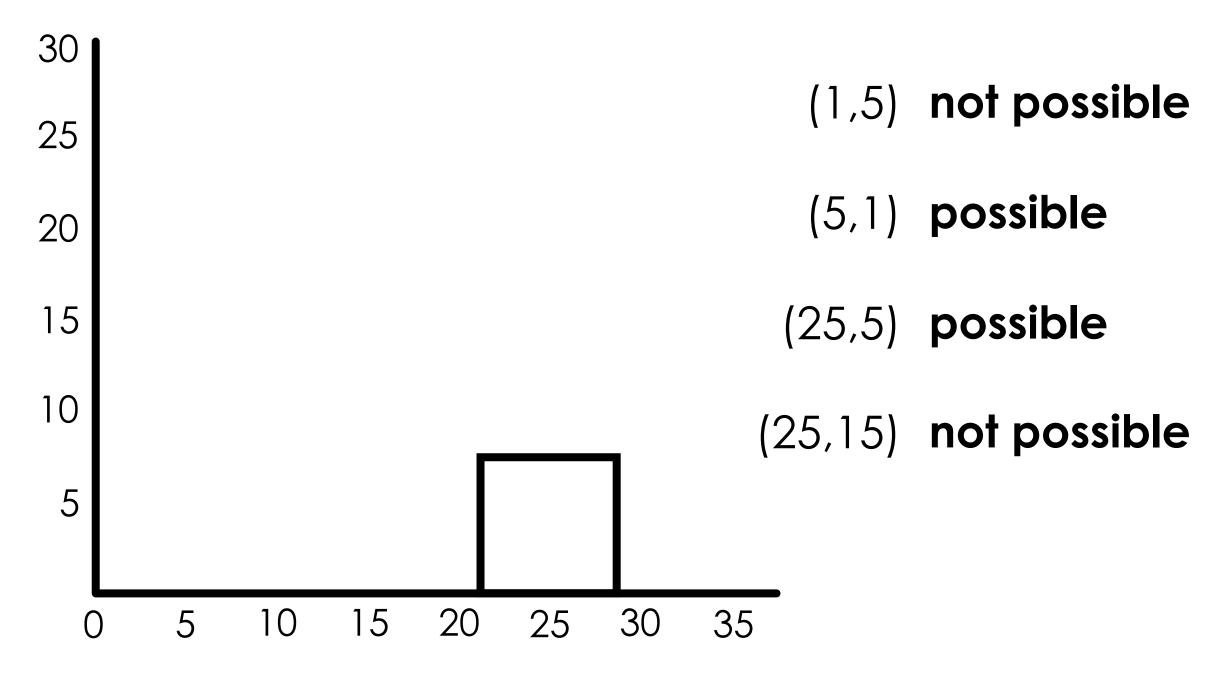


Which coordinates could be inside the square?



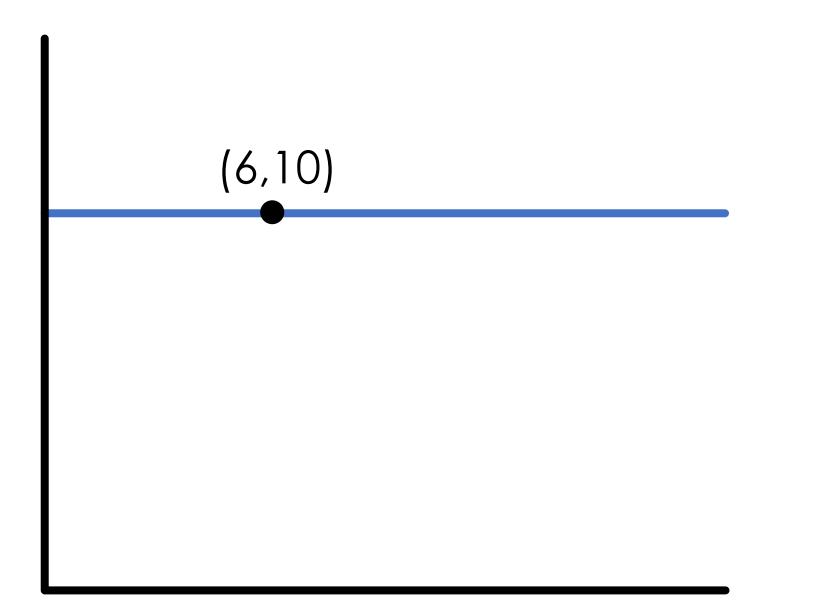


Which coordinates could be inside the square?



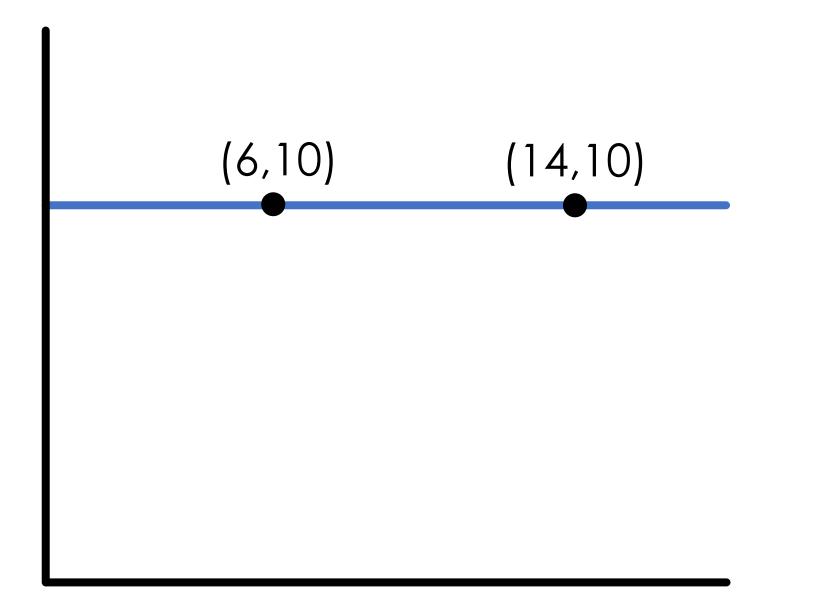


Which coordinates could be on the blue line?



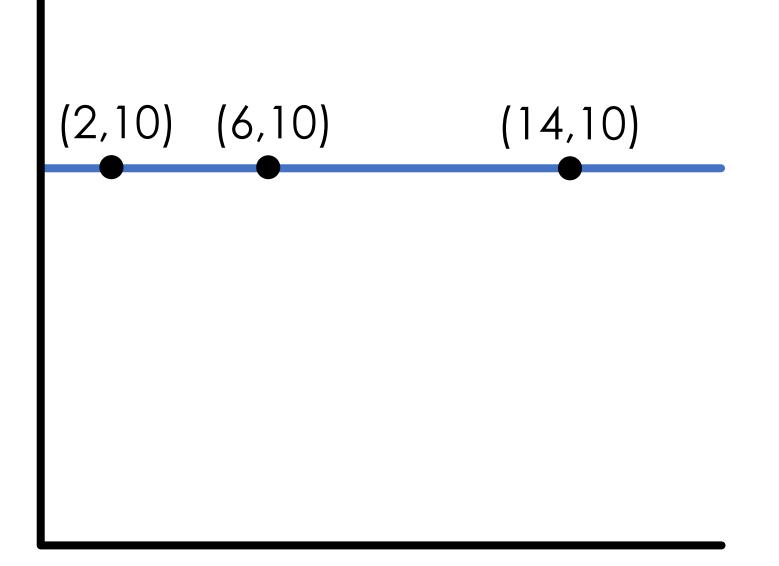


Which coordinates could be on the blue line?



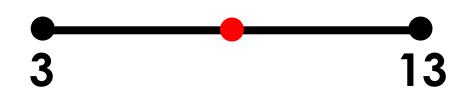


Which coordinates could be on the blue line?



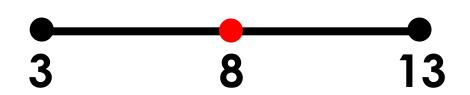






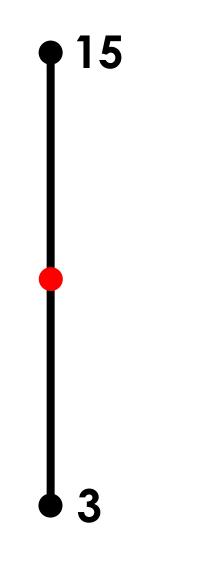






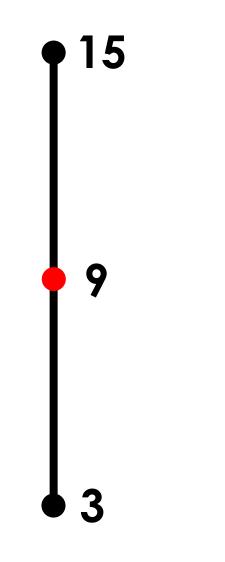






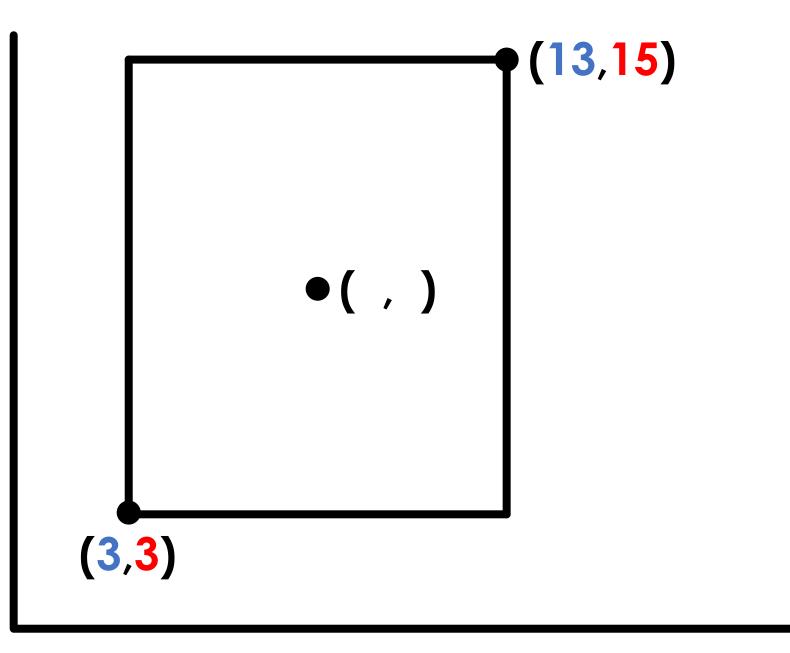






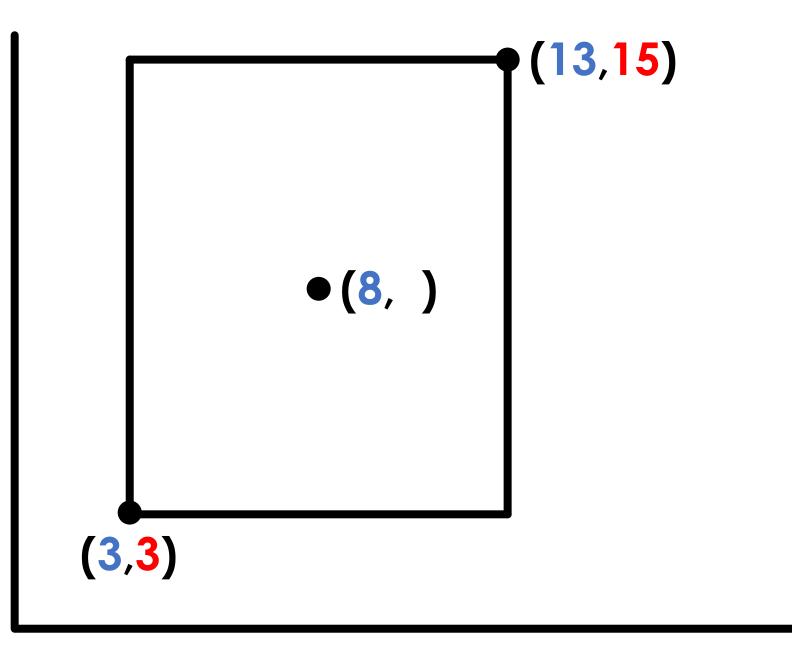


What is the midpoint of the rectangle?



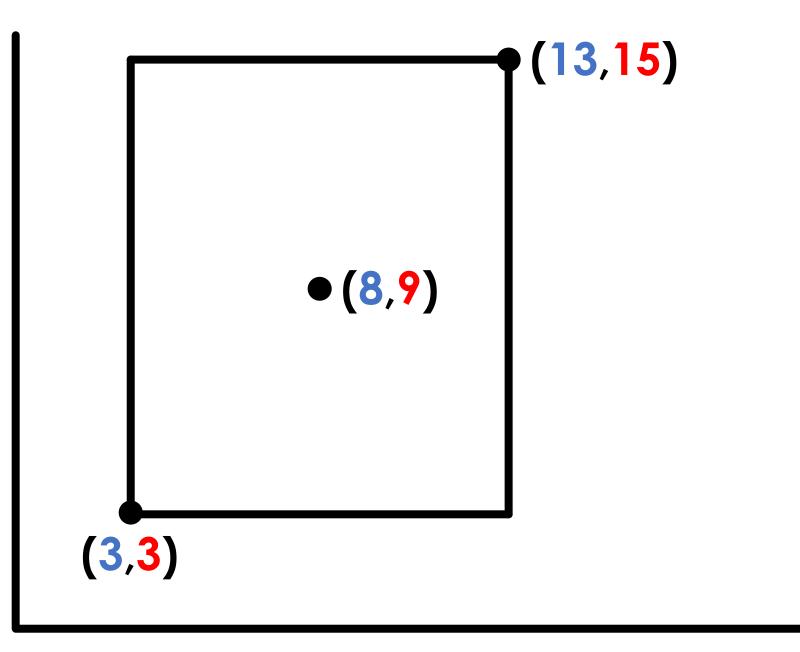


What is the midpoint of the rectangle?

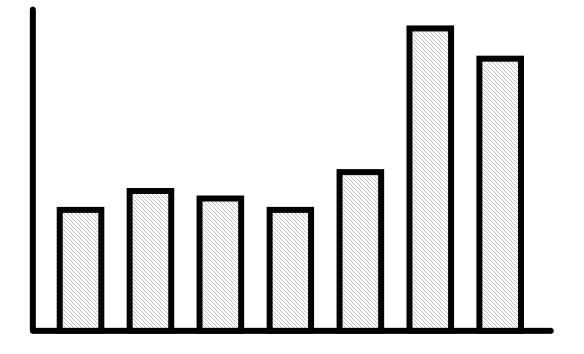


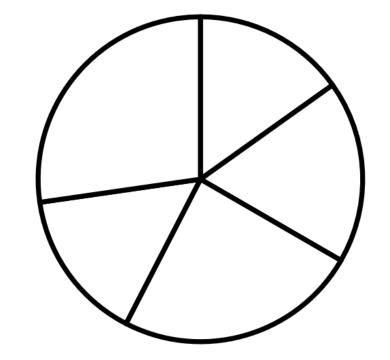


What is the midpoint of the rectangle?



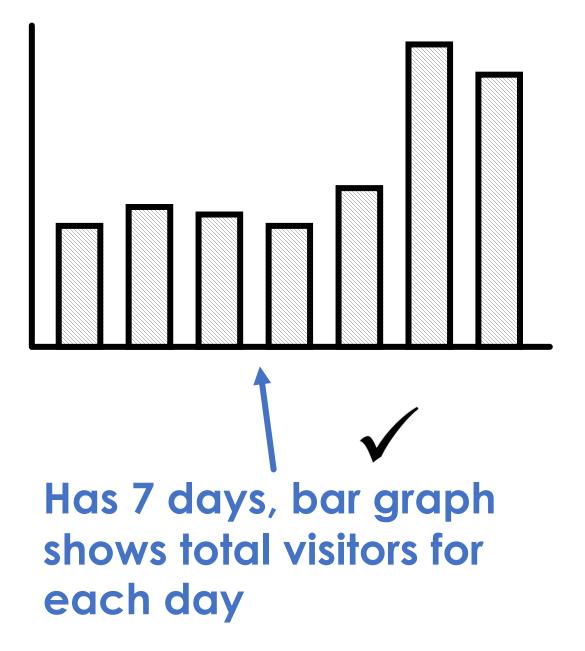
Which of the graphs could show the number of people who attended a Zoo in one week?

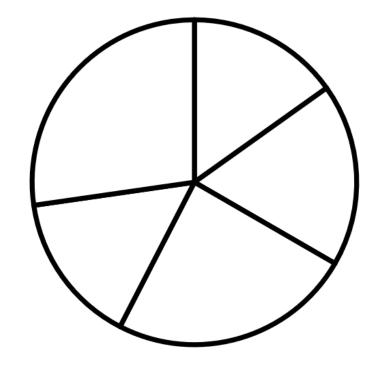






Which of the graphs could show the number of people who attended a Zoo in one week?

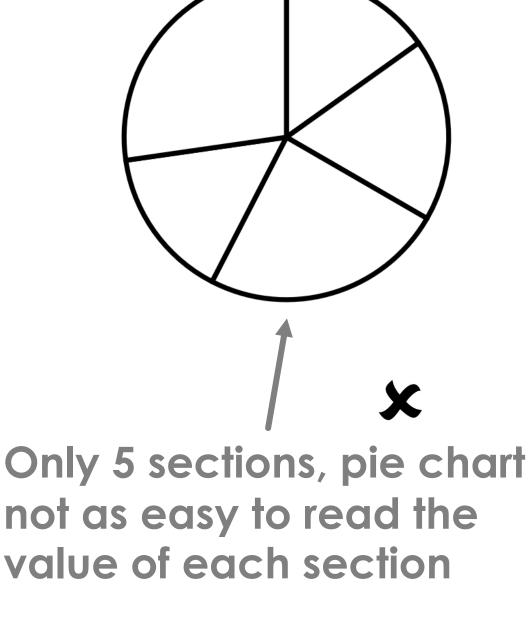






Which of the graphs could show the number of people who attended a Zoo in one week?

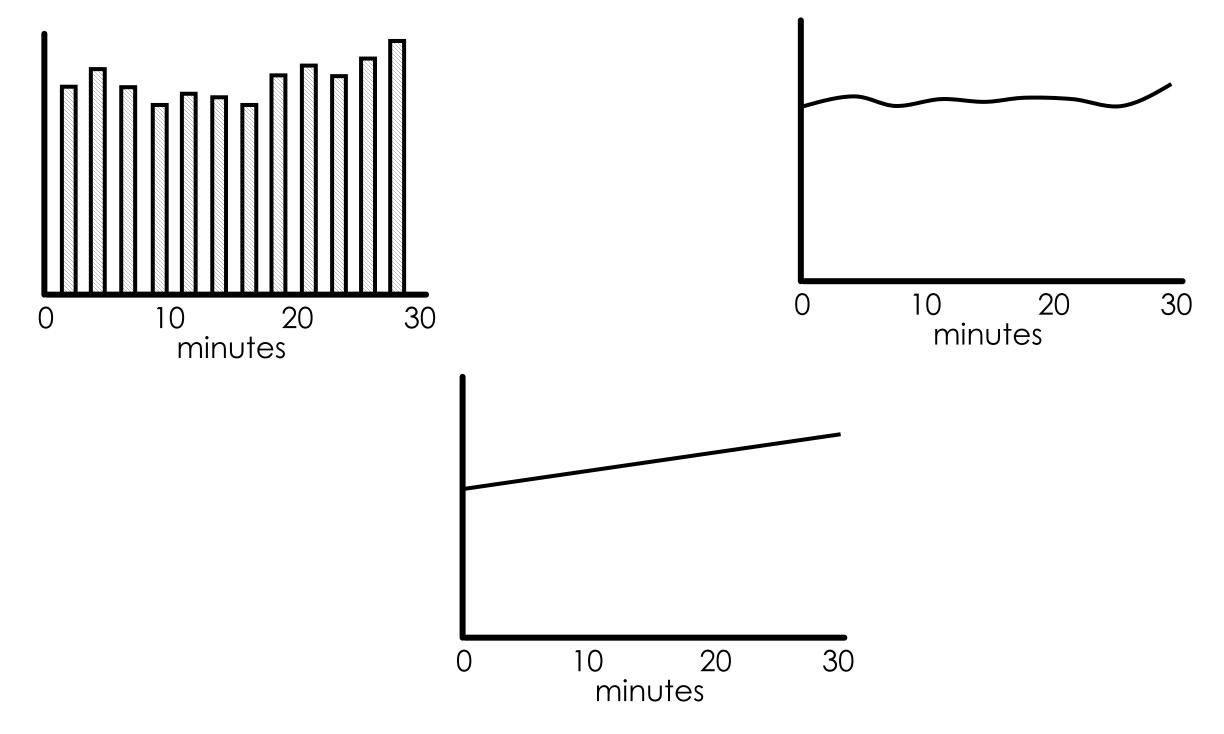






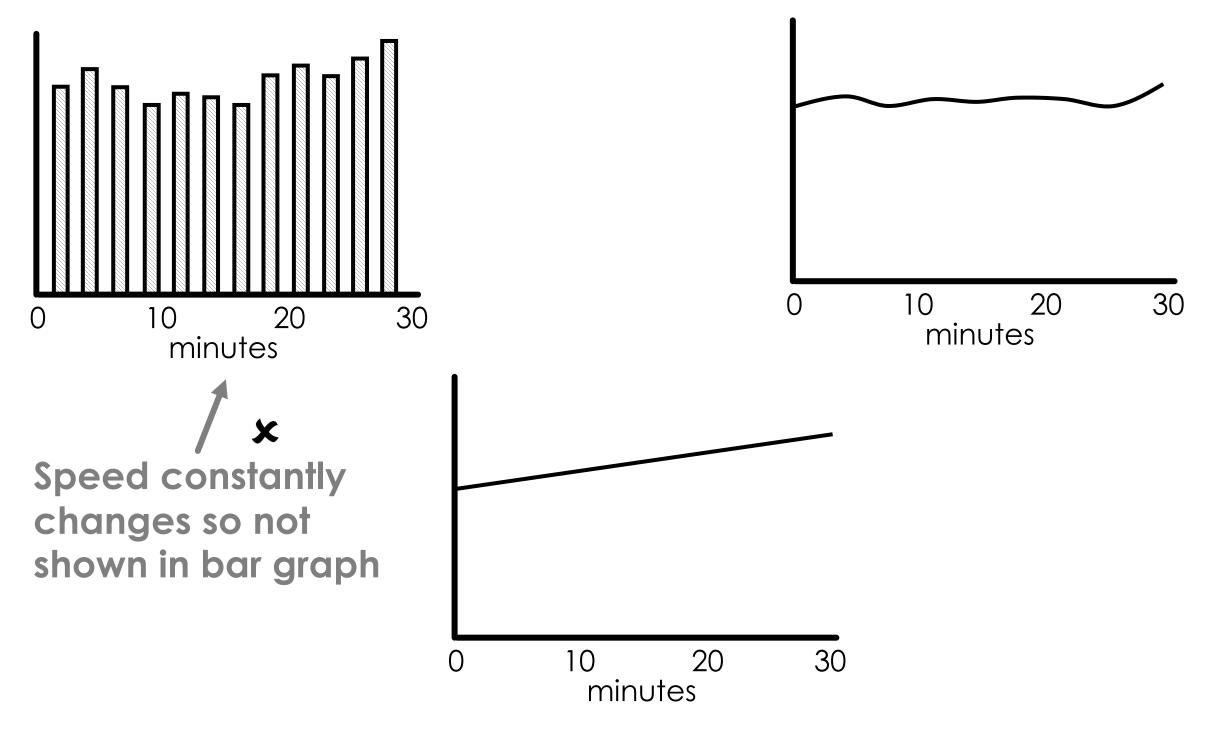


I SEE MATHS

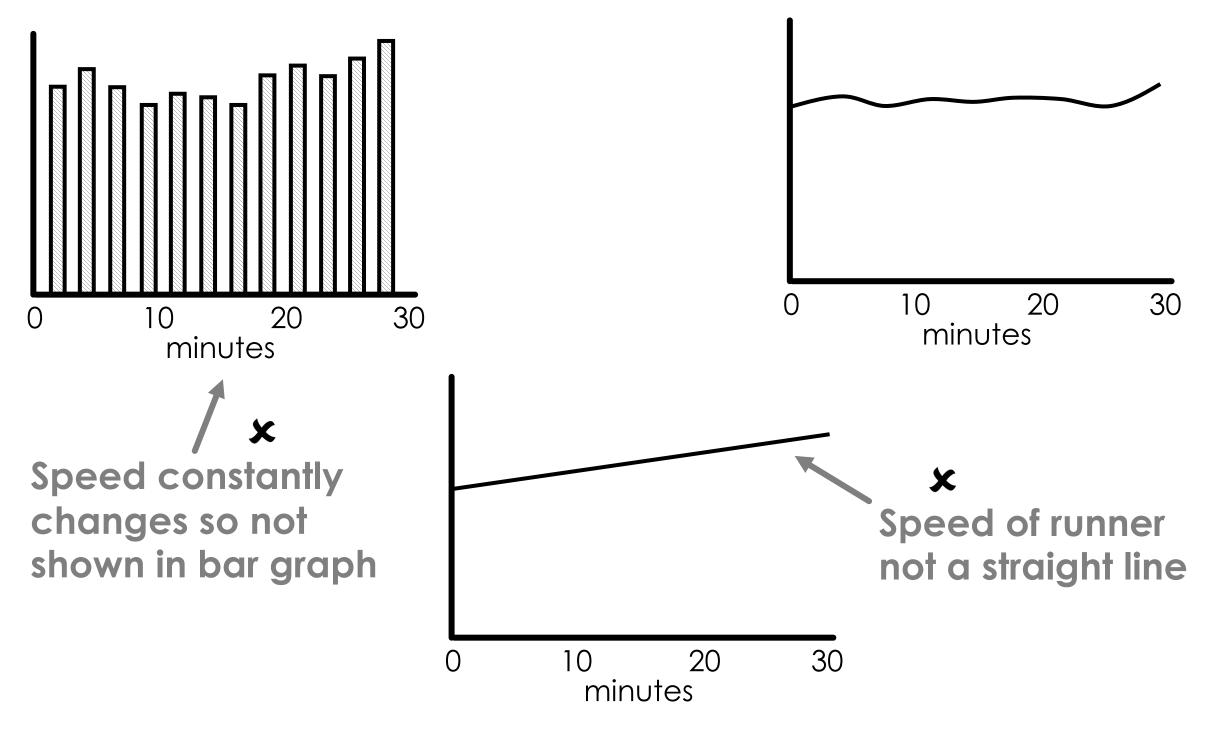




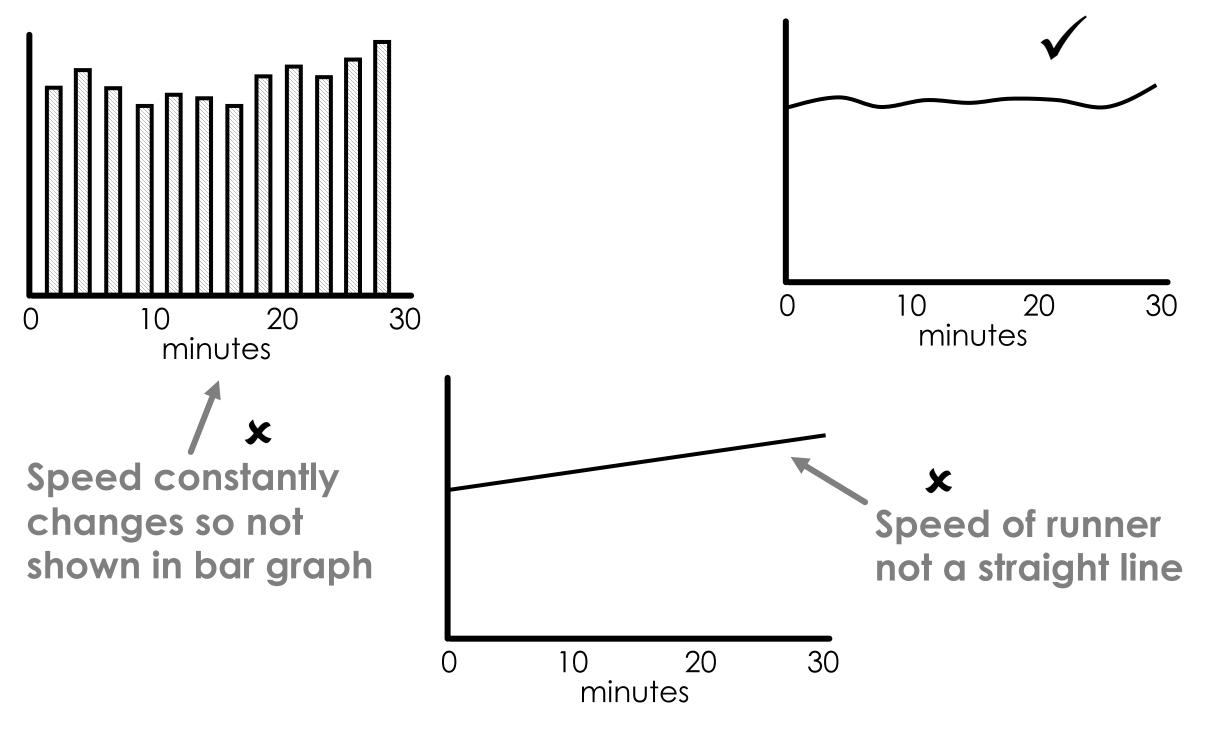
I SEE MATHS



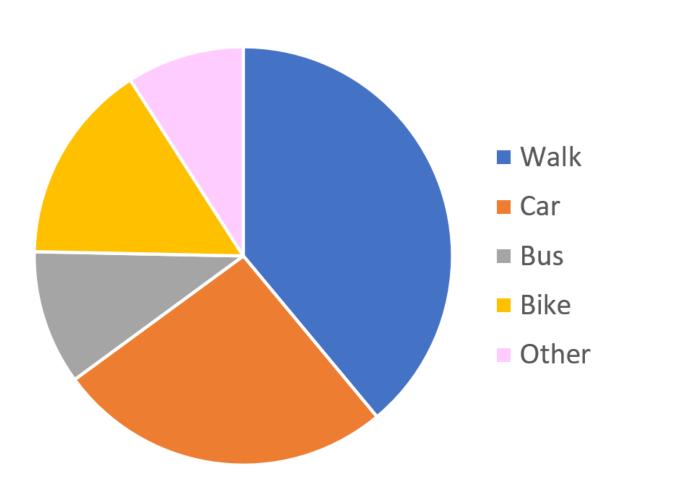


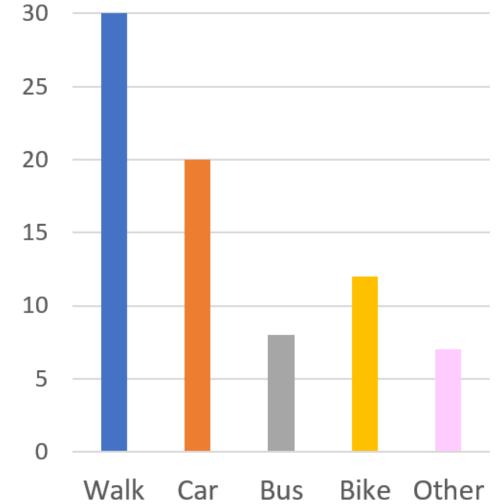


Build 1



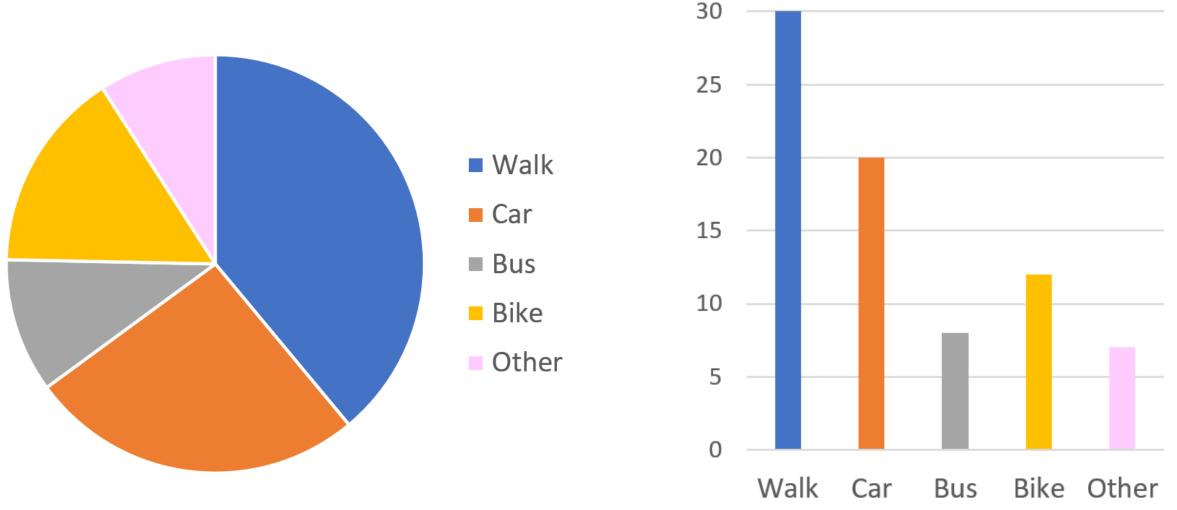
Which of the graphs could show the way children travel to school?





I SEE MATHS

Which of the graphs could show the way children travel to school?



Either.

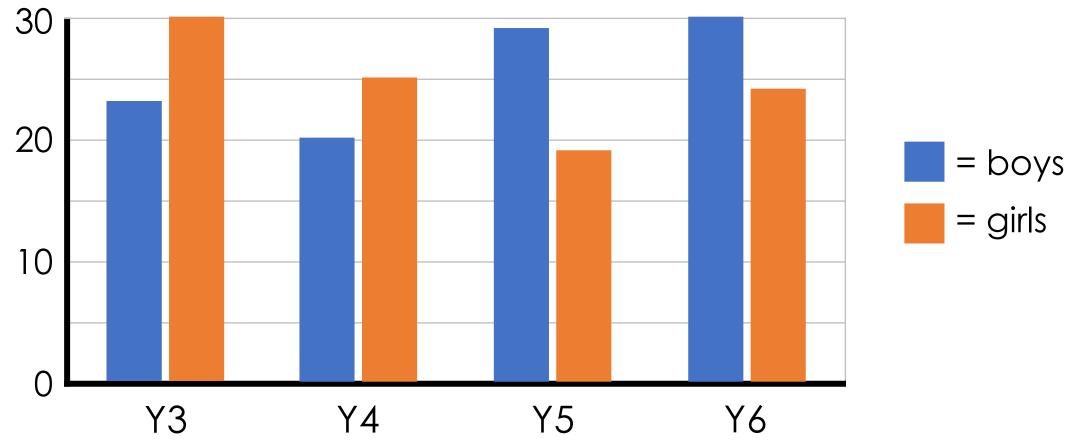
Pie chart makes the comparison between sections clear. Easier to read group values from bar graph.





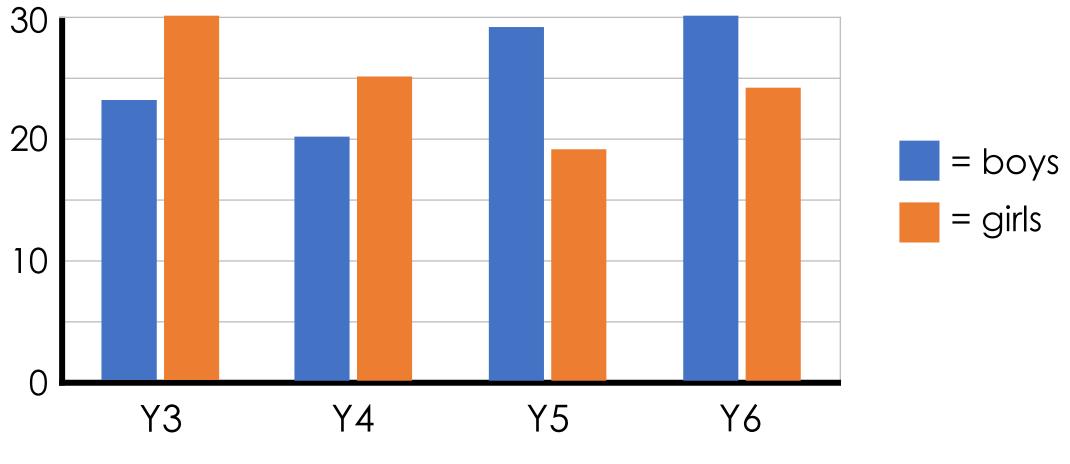
+ I SEE MATHS

Children in KS2





Children in KS2

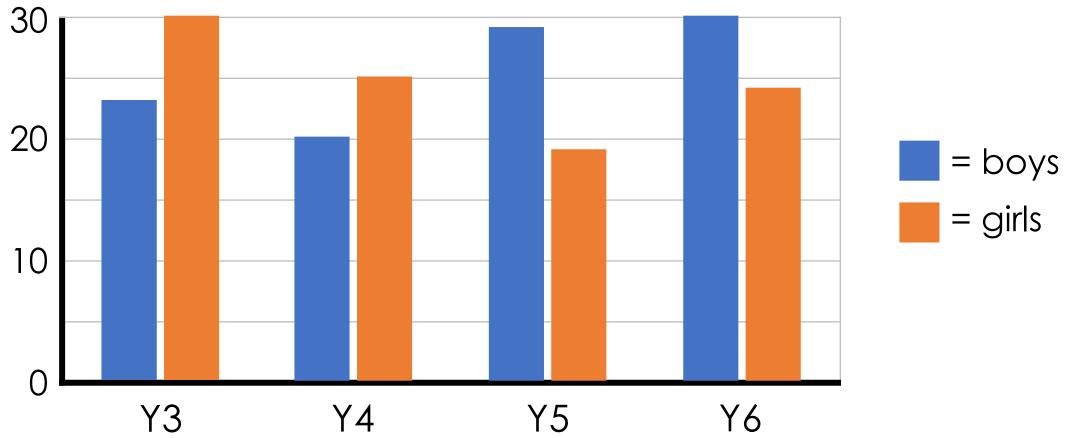


To answer, read 1 bar

What could the question be?



Children in KS2



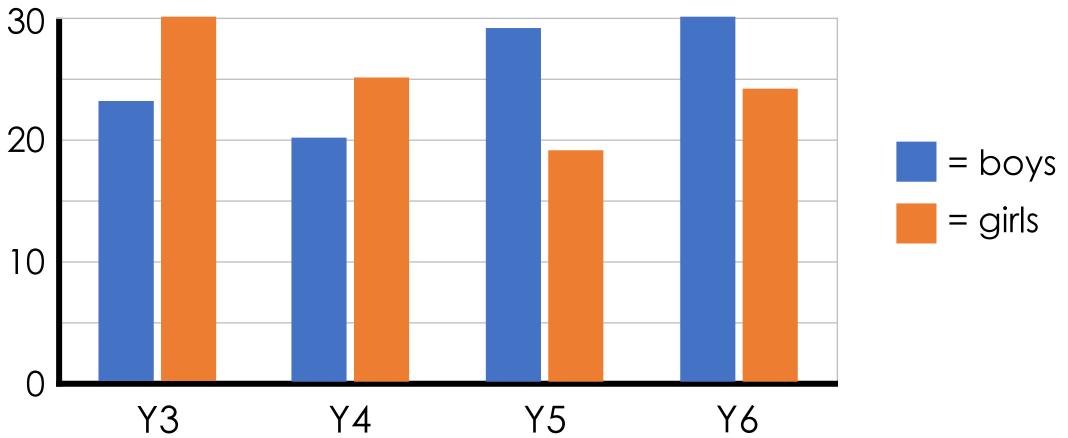
How many boys in Year 5?

To answer, read 1 bar



29 boys

Children in KS2

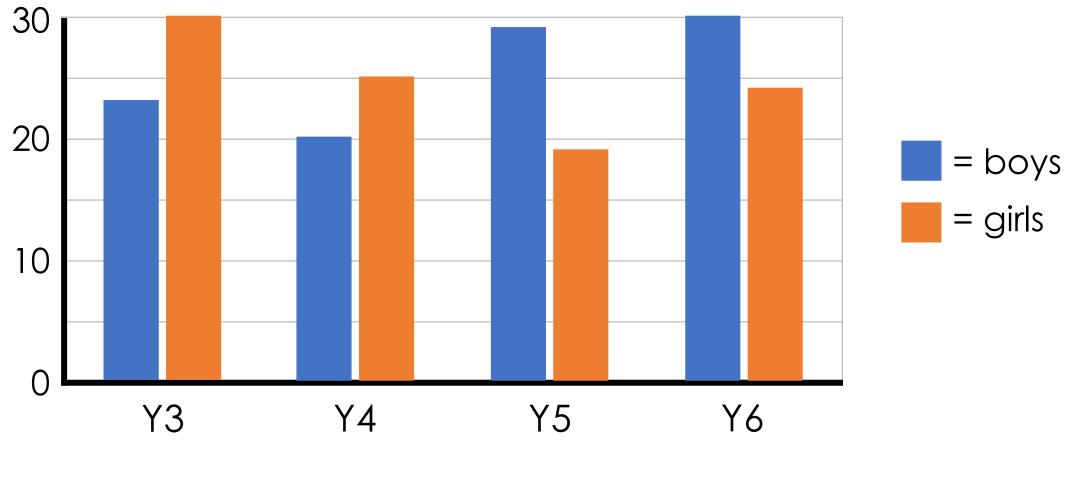


How many boys in Year 5?

To answer, read 1 bar



Children in KS2

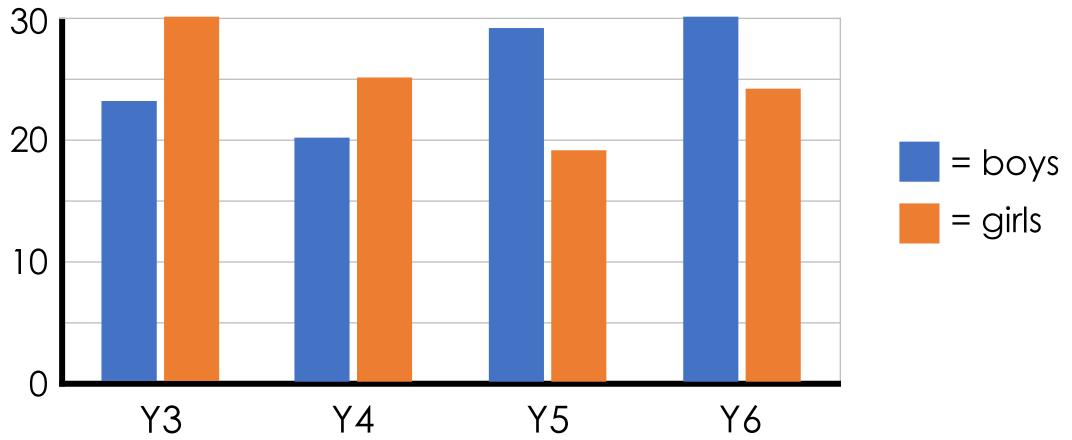


To answer, add 2 bars

What could the question be?



Children in KS2

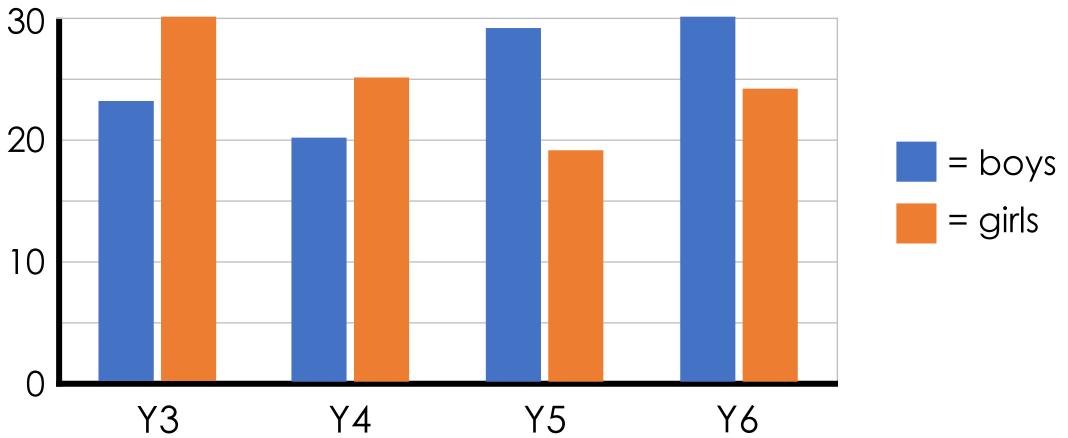


How many children in Year 3?

To answer, add 2 bars



Children in KS2



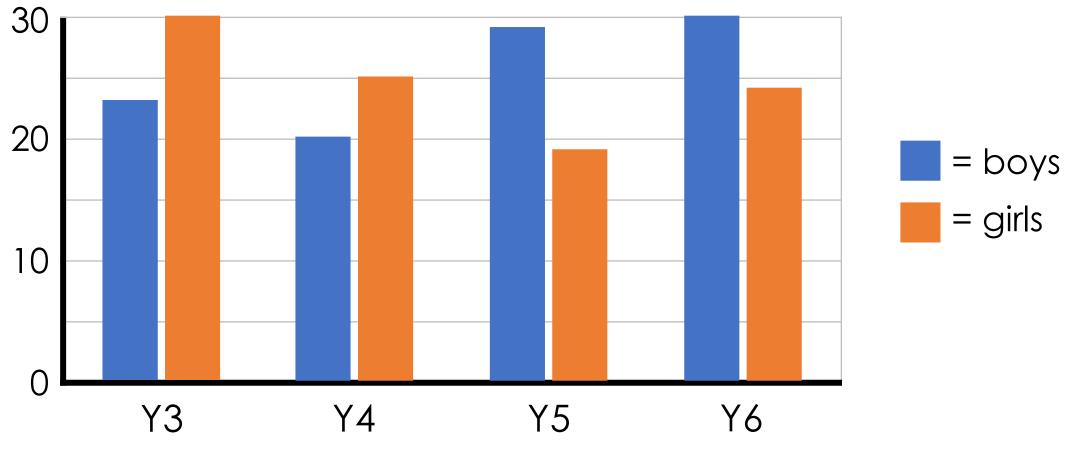
How many children in Year 3?

To answer, add **2 bars**

30 + 23 = 53 children



Children in KS2

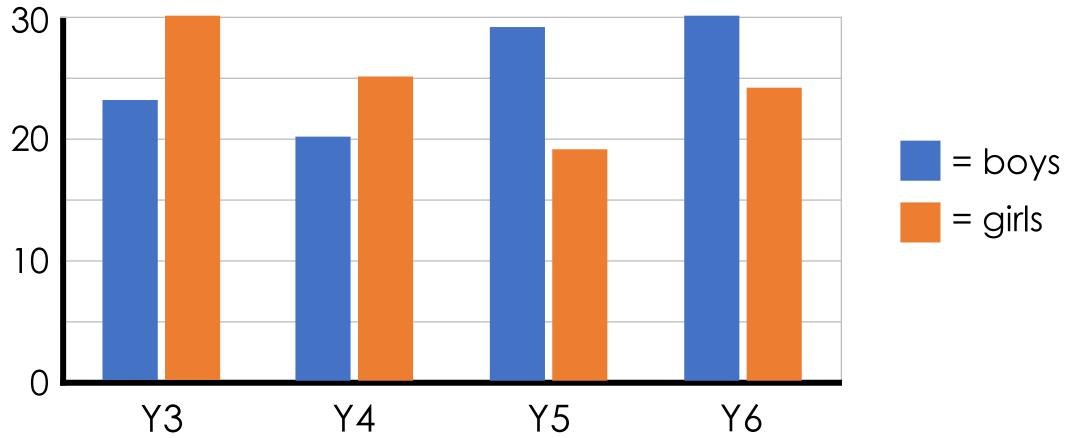


To answer, add 4 bars

What could the question be?



Children in KS2

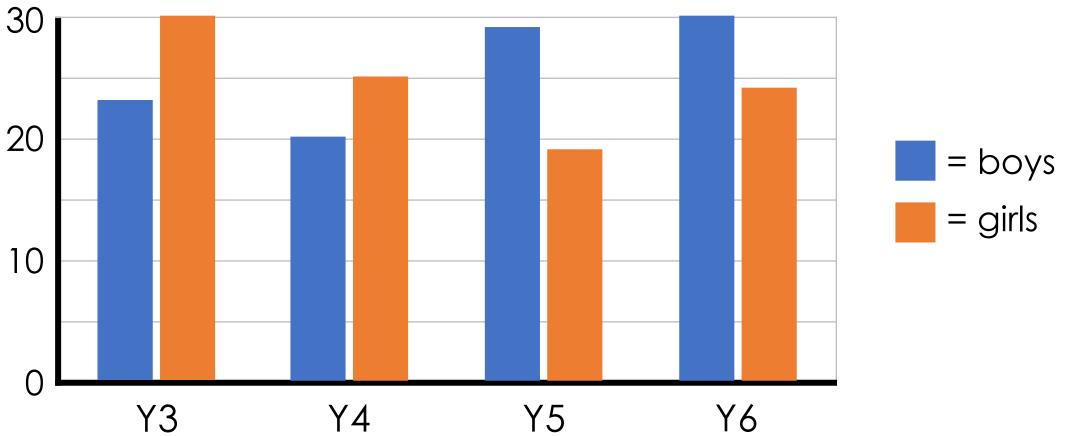


How many girls in KS2?

To answer, add 4 bars



Children in KS2



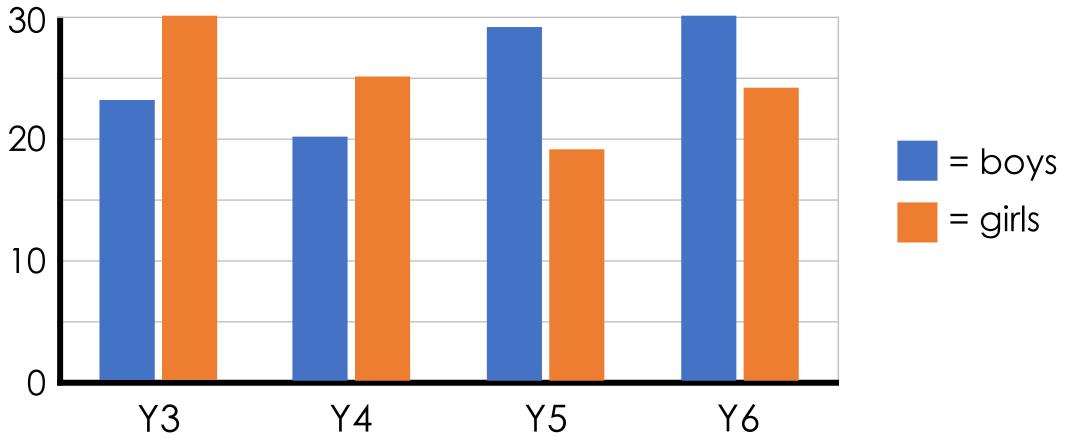
How many girls in KS2?

To answer, add 4 bars

30 + 25 + 19 + 24 = 98 girls



Children in KS2

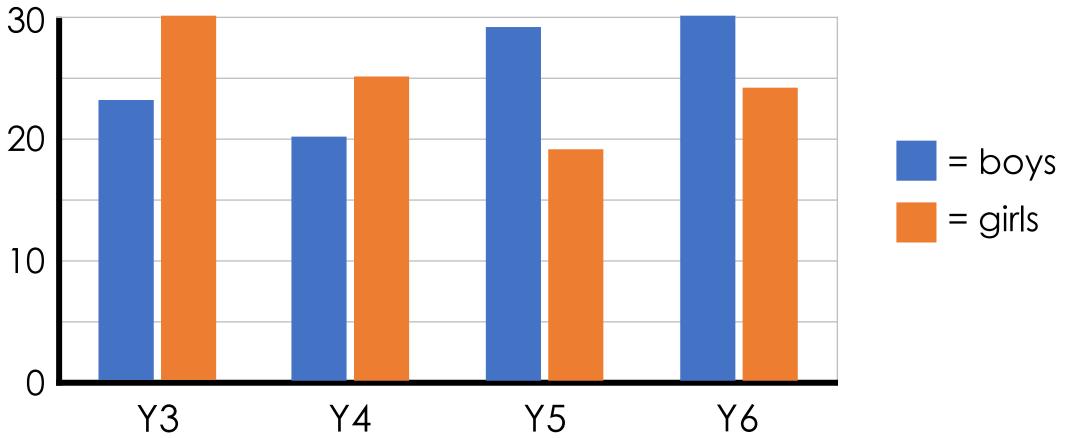


To answer, calculate the difference between **2 bars**

What could the question be?



Children in KS2

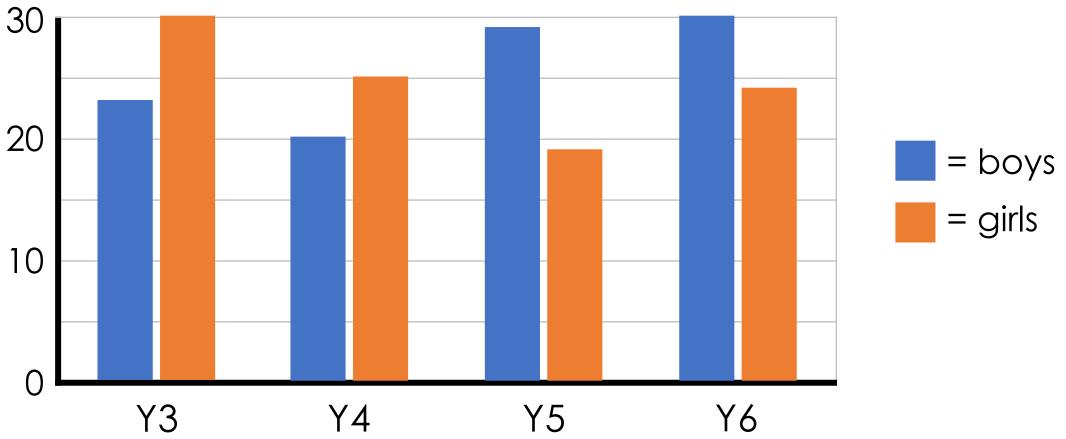


How many more boys in Y5 than Y4?

To answer, calculate the difference between **2 bars**



Children in KS2

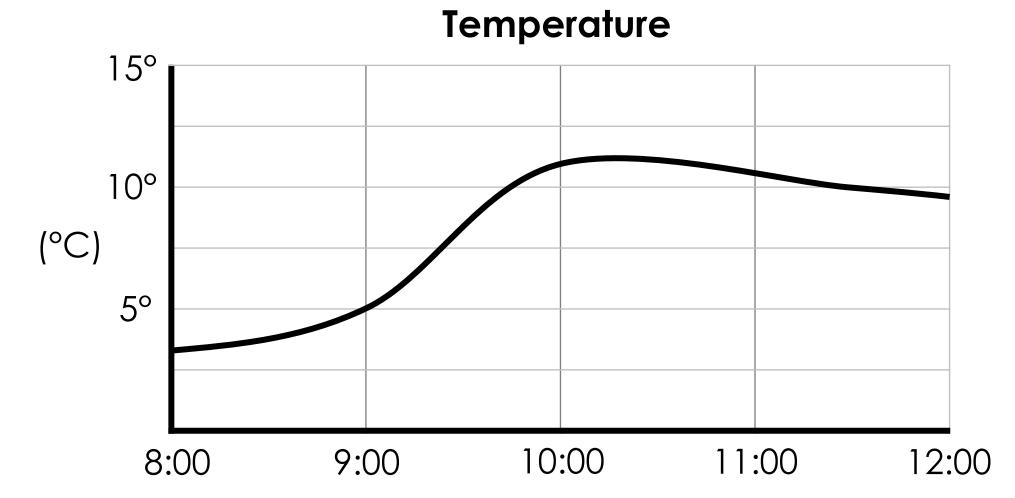


How many more boys in Y5 than Y4?

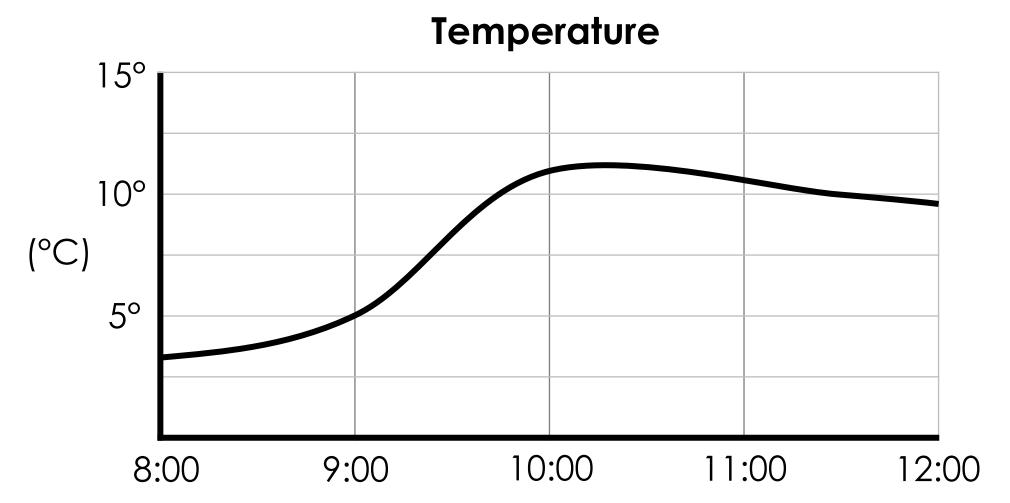
To answer, calculate the difference between **2 bars**

29 – 20 = 9 more





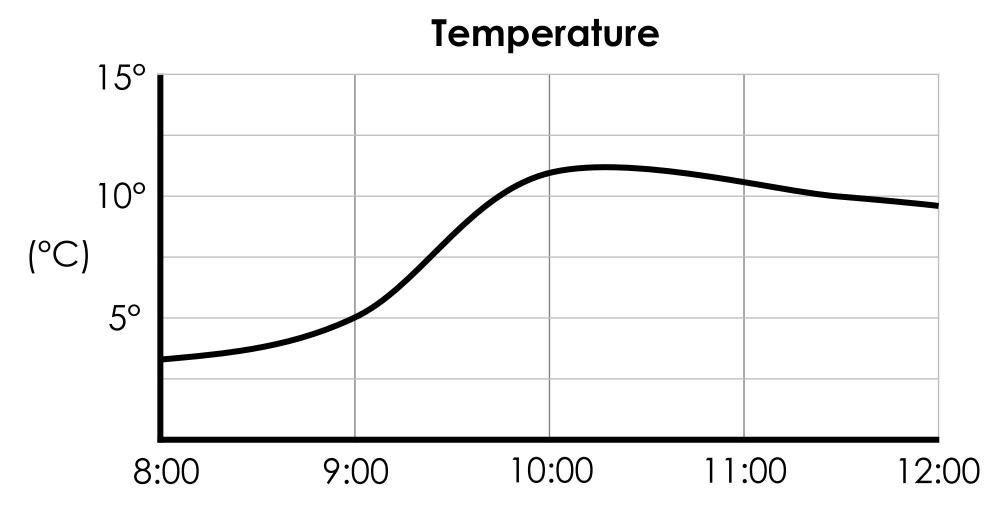




To answer, take 1 reading

What could the question be?



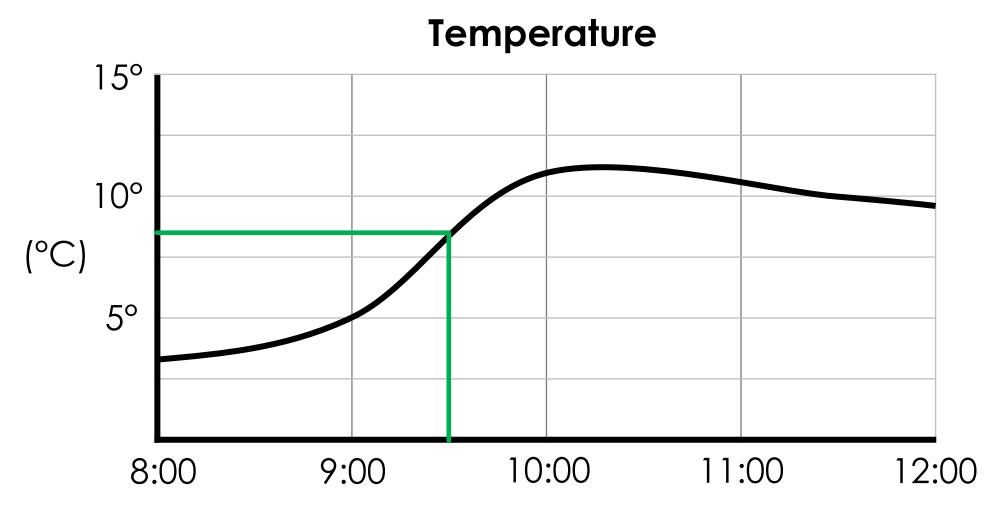


What was the temperature at 9:30?

To answer, take 1 reading



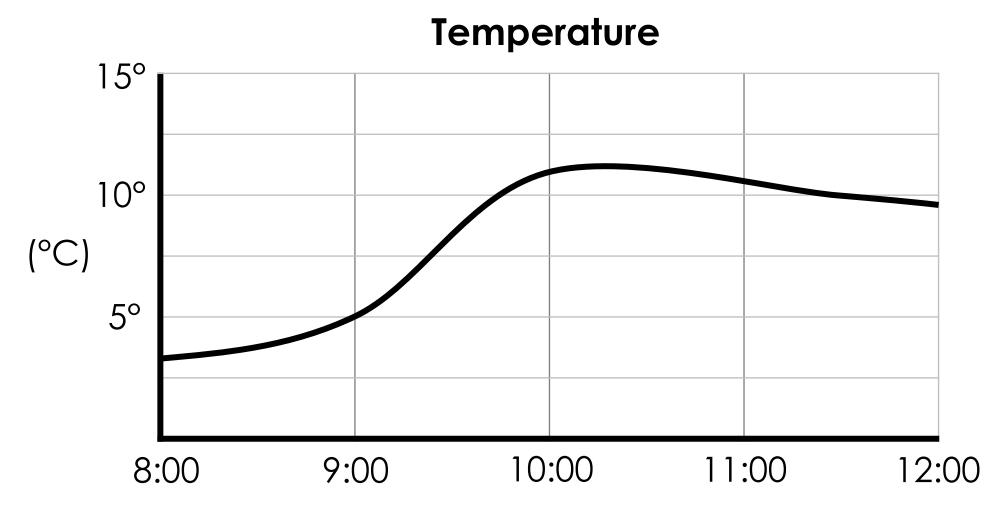
8.5 °C



What was the temperature at 9:30?

To answer, take 1 reading

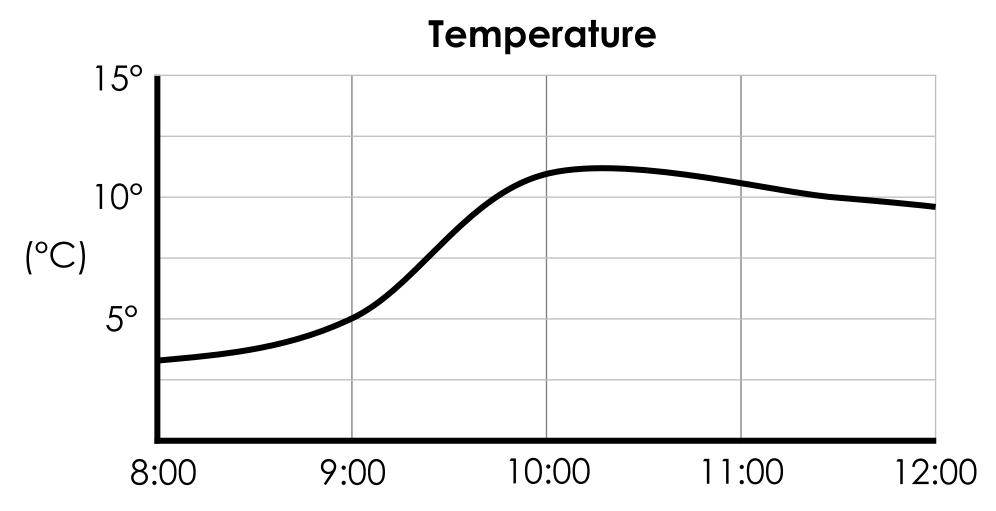




To answer, calculate the difference between **2 points**

What could the question be?

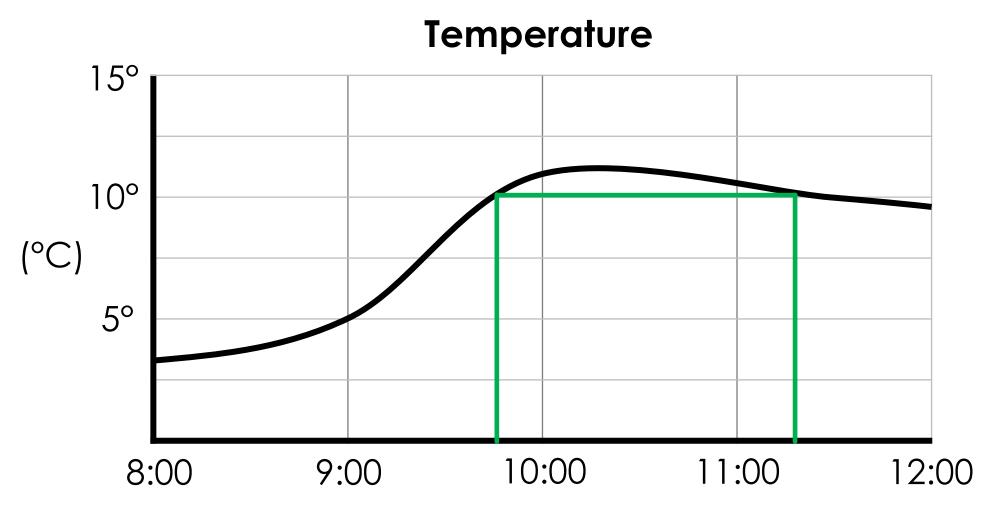




For how long was the temperature above $10^{\circ}c$?

To answer, calculate the difference between **2 points**





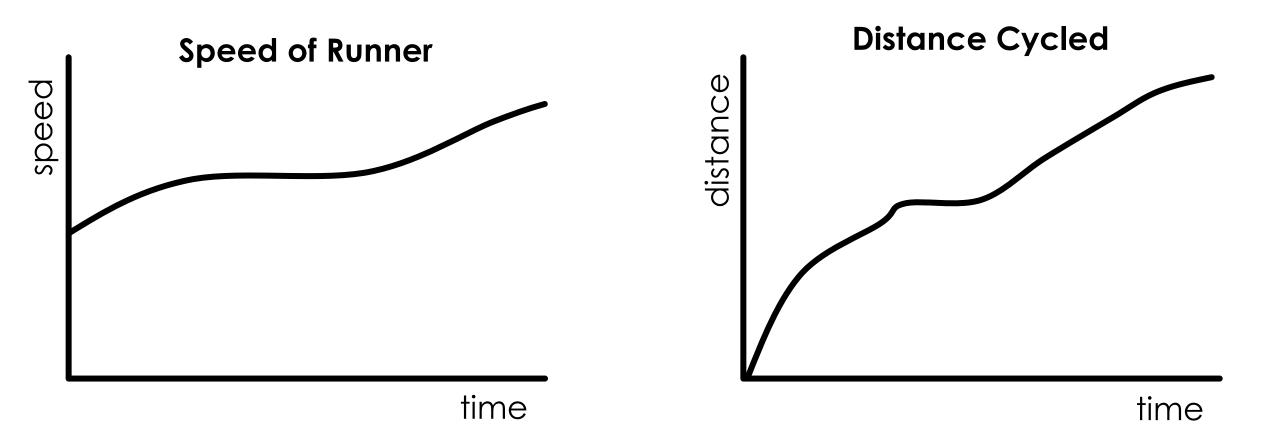
For how long was the temperature above 10°c?

To answer, calculate the difference between **2 points**

1 hour 35 minutes

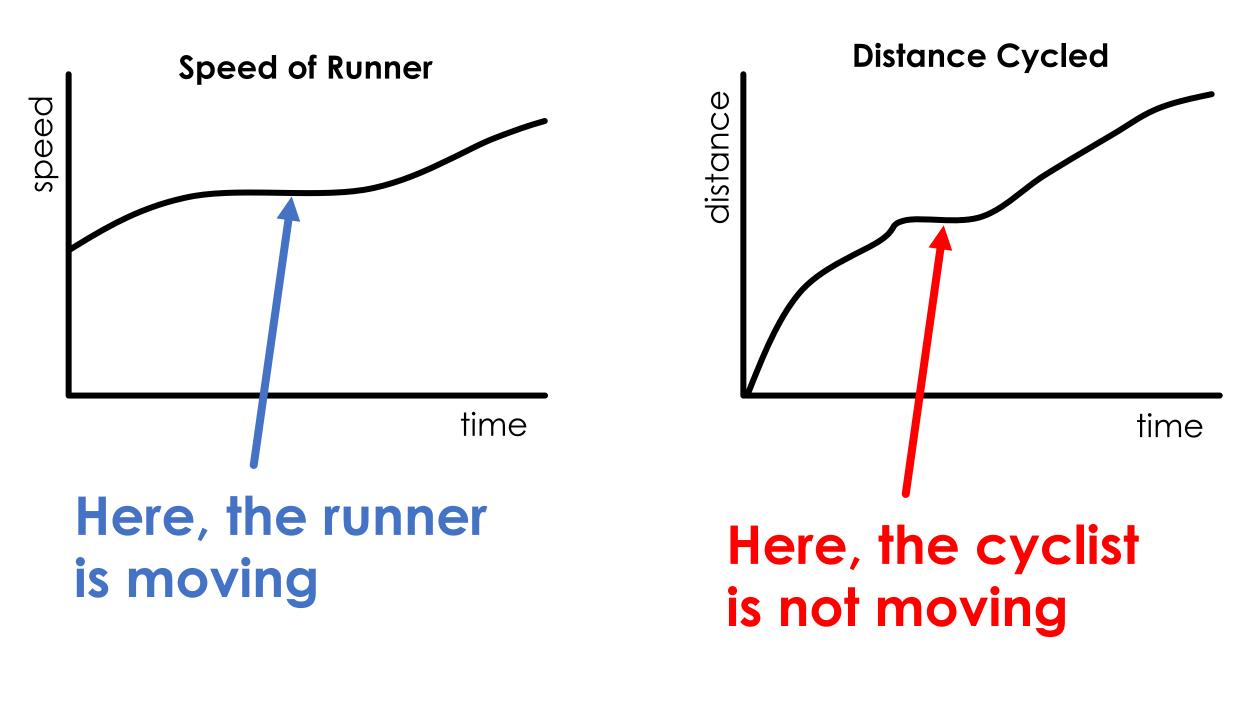
Build 3

+ I SEE MATHS



Build 3

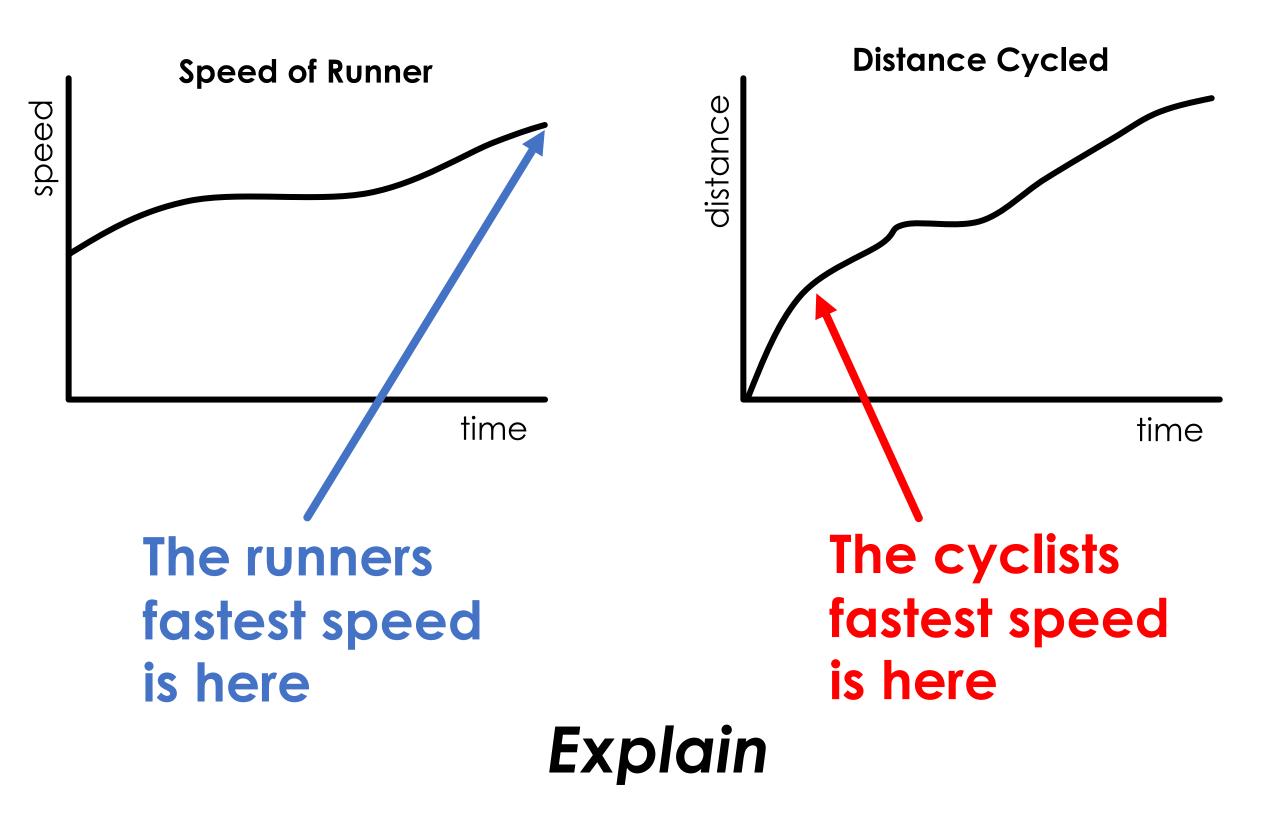
I SEE MATHS



Explain

Build 3

I SEE MATHS







Build

For each example, can the mean be calculated? Why would the mean be calculated?

The mean number of days in a week.

- The mean number of baskets scored by a netball player per match.
- The mean price of a mango in the supermarket.
- The mean happiness you feel each morning.
- The mean height of an adult giraffe.



Which Answer?

Here are the shoe sizes for five children:

3, 4, 3, 7, 3

The mean shoe size is size 3

The mean shoe size is size 4



Which Answer?

Here are the shoe sizes for five children:

3, 4, 3, 7, 3

The mean shoe size is size 3

The mean shoe size is size 4

Shoe sizes

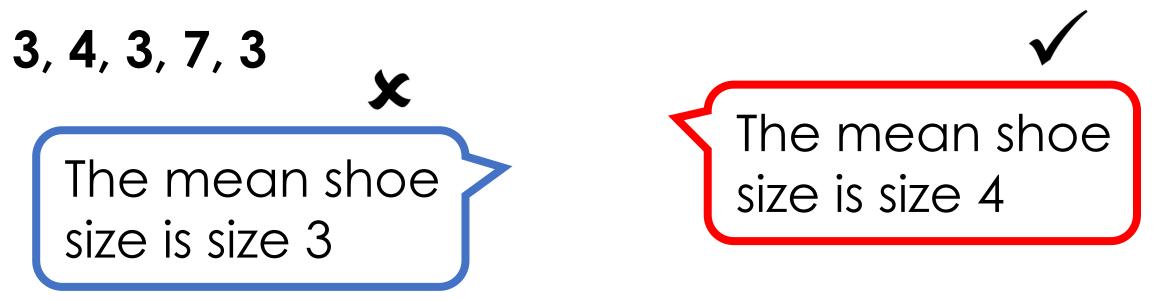
3 4 3	7	3
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Build 2

The Mean

Which Answer?

Here are the shoe sizes for five children:



Shoe sizes	3	4	3		7	3
Mean	4	4		1	4	4



Which Answer?

Three numbers have a mean of 12. What could the numbers be?





Build 2

The Mean

Which Answer?

Three numbers have a mean of 12. What could the numbers be?





12	12		12	
9	11	16		

Build 2

The Mean

Which Answer?

Three numbers have a mean of 12. What could the numbers be?





12	12		12	
9	11		16	



The rugby team Layton Warriors played 3 matches.

Their mean number of points per match was

Match 1: points Match 2: points Match 3: points

Build 3

The rugby team Layton Warriors played 3 matches.

Their mean number of points per match was Match 1: points Match 2: points Match 3: points Matc

smallest of the four missing numbers.



The rugby team Layton Warriors played 3 matches.

Their mean number of points per match was **20**

Match 1: **21** points Match 2: **26** points Match 3: points



The rugby team Layton Warriors played 3 matches.

Their mean number of points per match was **20**

Match 1: **21** points Match 2: **26** points Match 3: **13** points



The rugby team Layton Warriors played 3 matches.

In total, they scored **60** points.

Their mean number of points per match was **20**

Match 1: **21** points Match 2: **26** points Match 3: **13** points



The rugby team Dutton Lions played 4 matches.

In total, they scored **60** points.

Their mean number of points per match was

Match 1: points Match 2: points Match 3: points Match 4: points



The rugby team Dutton Lions played 4 matches.

In total, they scored **60** points.

Their mean number of points per match was

Match 1: points Match 2: points Match 3: points Match 4: points

Can the mean be calculated?



The rugby team Dutton Lions played 4 matches.

In total, they scored **60** points.

Their mean number of points per match was **15**

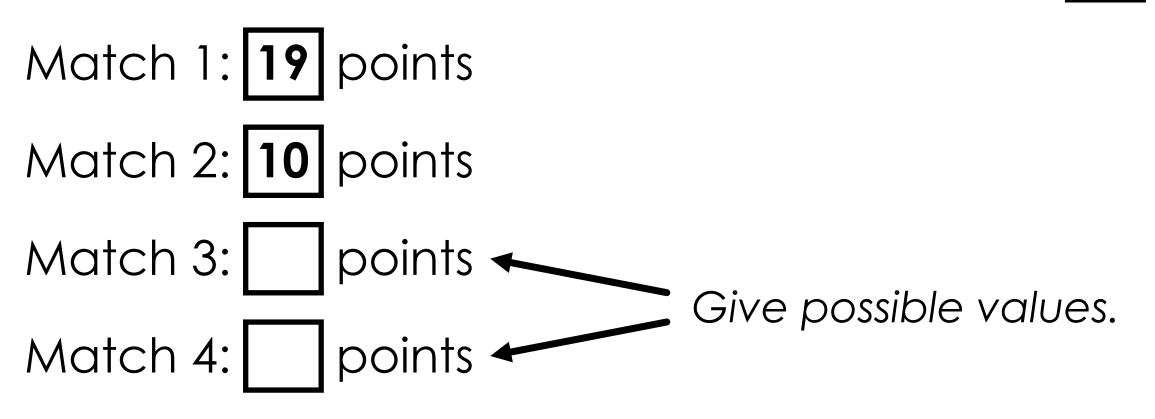
Match 1: points Match 2: points Match 3: points Match 4: points



The rugby team Dutton Lions played 4 matches.

In total, they scored **60** points.

Their mean number of points per match was **15**





The rugby team Dutton Lions played 4 matches.

In total, they scored **60** points.

Their mean number of points per match was **15**

Match 1: **19** points Match 2: **10** points Match 3: **14** points Match 4: **17** points