

There's another way!

The mistake is the...

I've spotted...

SAMPLE

I SEE REASONING - KS1

TASKS FOR ENRICHING MATHEMATICAL TALK

It's the same... but different...

This picture shows...

I did it differently...

I can show y...

The pattern is...

I've noticed that...

ADDITION



by GARETH METCALFE

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I SEE REASONING – KS1

Sample materials - addition

This is a free copy of the addition section and the addition and subtraction section from ***I See Reasoning – KS1***.

There are 15 sections and a total of 281 questions in the full resource. It is delivered via Etsy as a PDF digital download.

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To order ***I See Reasoning – UKS2***, [click here](#).

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Explain the mistake

$$5 + 3$$

5, 6, 7



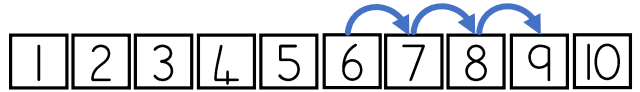
Spot the difference

$$6 + 3$$



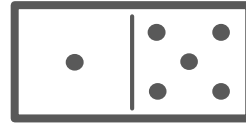
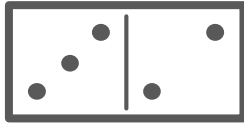
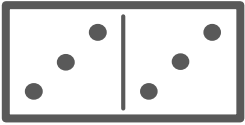
8

$$6 + 3$$

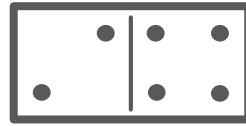
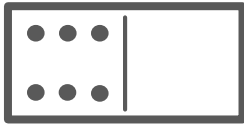
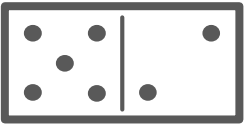


9

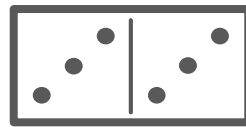
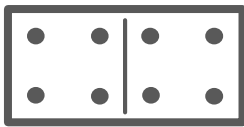
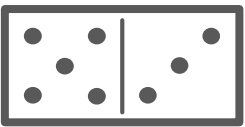
Odd one out



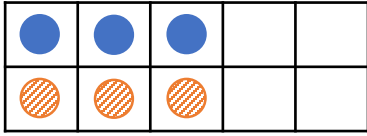
Odd one out



Odd one out

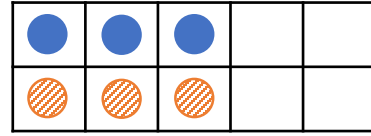


I know... so...



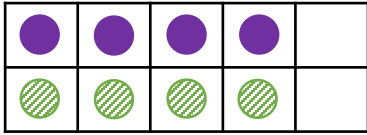
$$3 + 3 = 6$$

$$4 + 3 = \square$$



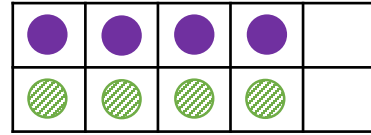
$$3 + 3 = 6$$

$$5 + 3 = \square$$



$$4 + 4 = 8$$

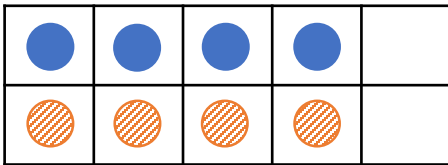
$$4 + 5 = \square$$



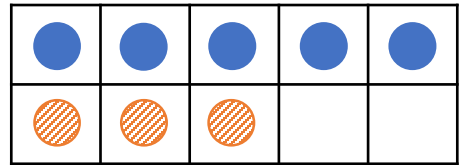
$$4 + 4 = 8$$

$$\square + 4 = 7$$

The same... different...

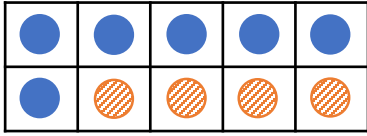


$$\square + \square = \square$$



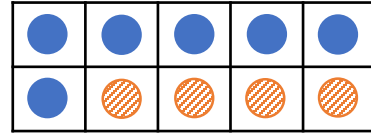
$$\square + \square = \square$$

I know... so...



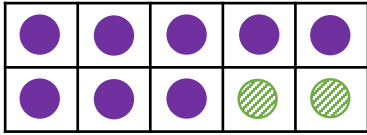
$$6 + 4 = 10$$

$$7 + 4 = \square$$



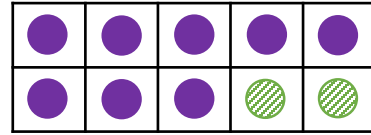
$$6 + 4 = 10$$

$$6 + 3 = \square$$



$$8 + 2 = 10$$

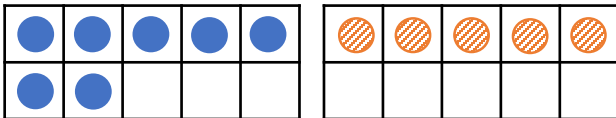
$$8 + 4 = \square$$



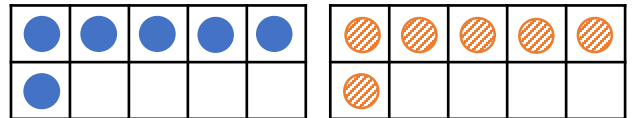
$$8 + 2 = 10$$

$$8 + \square = \square$$

The same... different...

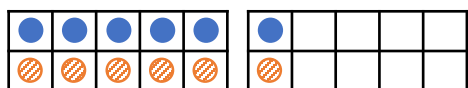


$$\square + \square = \square$$



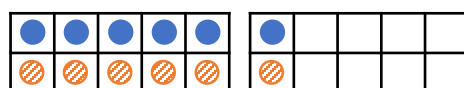
$$\square + \square = \square$$

I know... so...



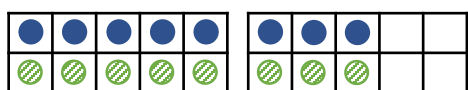
$$6 + 6 = 12$$

$$7 + 6 = \square$$



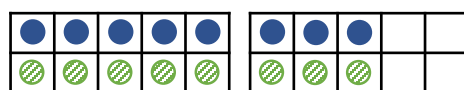
$$6 + 6 = 12$$

$$6 + 5 = \square$$



$$8 + 8 = 16$$

$$8 + 6 = \square$$

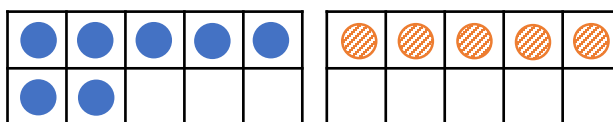


$$8 + 8 = 16$$

$$\square + 8 = 17$$

Different ways

$$7 + 5 = \square$$



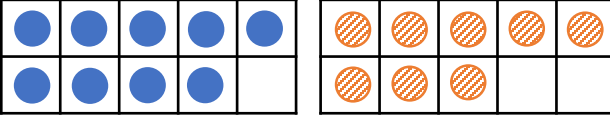
7 + 5 is the same as:

$$5 + 5 + \square$$

$$7 + 3 + \square$$

$$6 + \square$$

Different ways

$9 + 8 = \square$


9 + 8 is the same as:

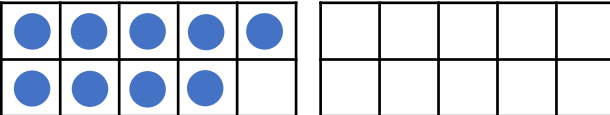
10 + 10 take away \square

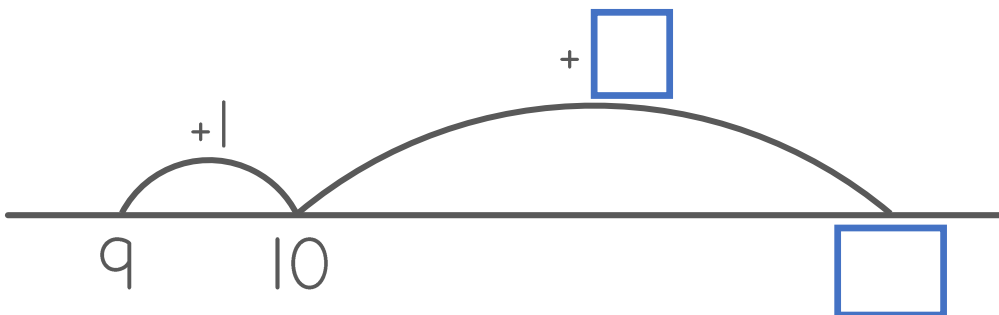
Double \square add 1

Double \square take away 1

Other: _____

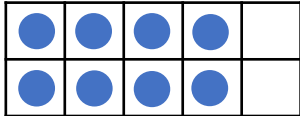
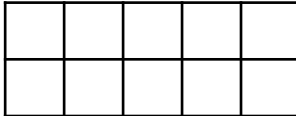
Finish the picture

$9 + 5 = \square$


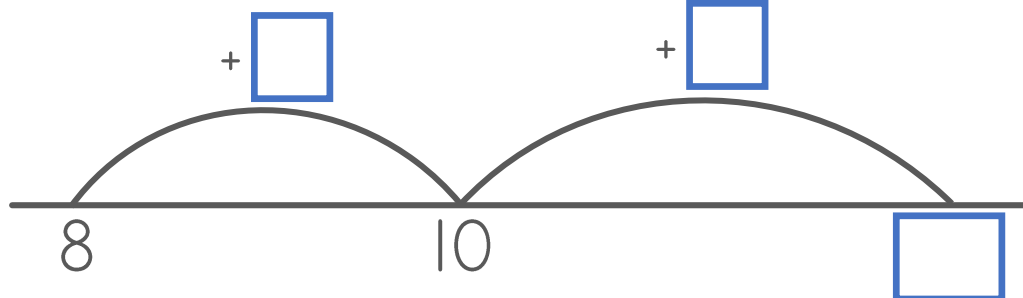


Finish the pictures

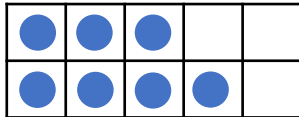
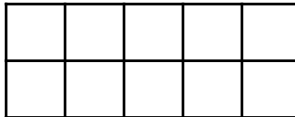
$8 + 5 = \square$

$+ \square$ $+ \square$

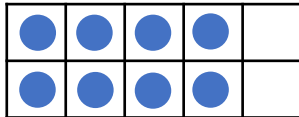
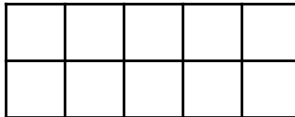


$7 + 5 = \square$

7 10

$8 + 6 = \square$

Finish the pictures

5 = 3 + []

6 = [] + []

[] + [] = [] + []

[] + [] = [] + []

The same... different...

[] + [] = [] + []

True or false?

$$4 = 4$$

$$4 = 3 + 1$$

$$2 + 2 = 4 + 1$$

True or false?

$$5 + 3 = 8 + 1$$

$$8 = 5 + 3$$

$$5 + 3 = 3 + 5$$

Which answer?

$$3 + 2 = \square + 1$$

5

6

4

Fill the gaps

start add end

start add end

start add end

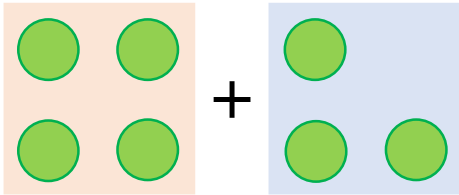
Which answer?

$$88 + \square = 100$$

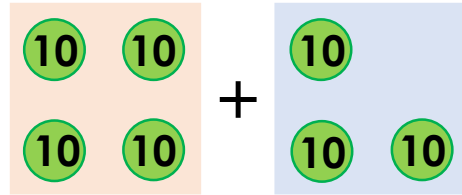
12

22

The same... different...



$$\square + \square = \square$$



$$\square + \square = \square$$

Which answer?

$$6 + 3 = 9 \text{ so } 60 + 30 = \square$$

90

630

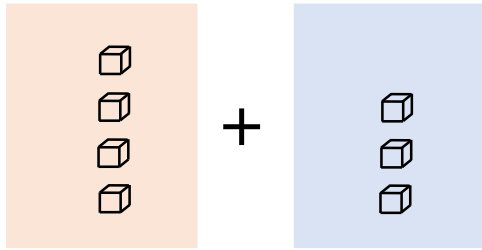
Odd one out

$$6 + 4$$

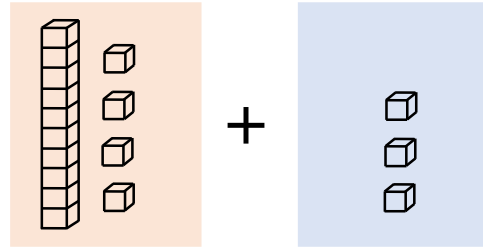
$$16 + 4$$

$$60 + 40$$

The same... different...

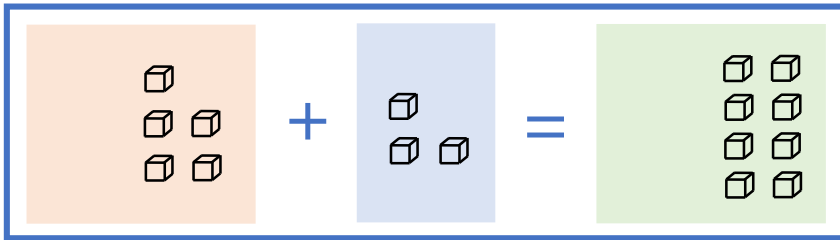


$$\square + \square = \square$$

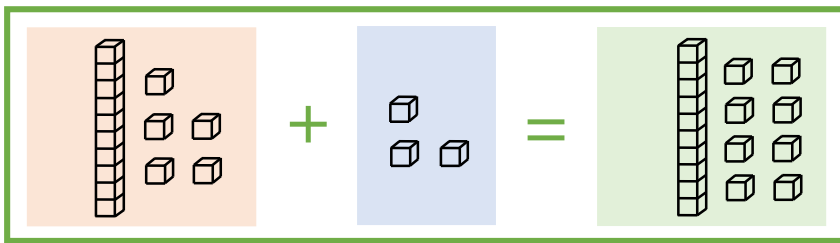


$$\square + \square = \square$$

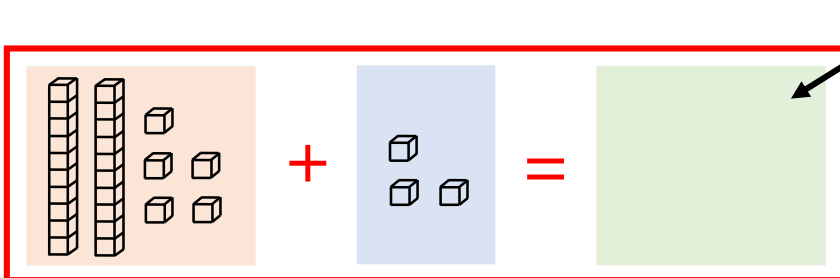
I know... so...



$$5 + 3 = \square$$

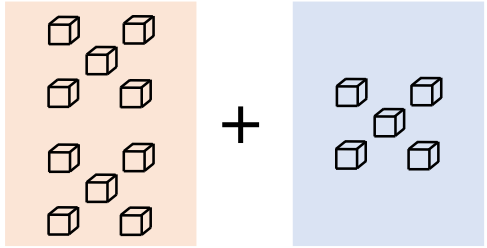


$$15 + 3 = \square$$

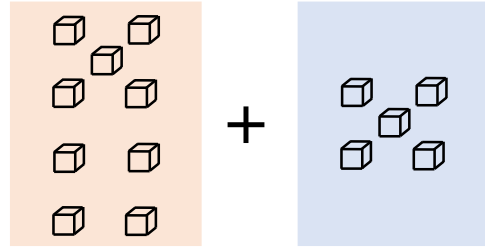


$$25 + 3 = \square$$

Spot the difference



+

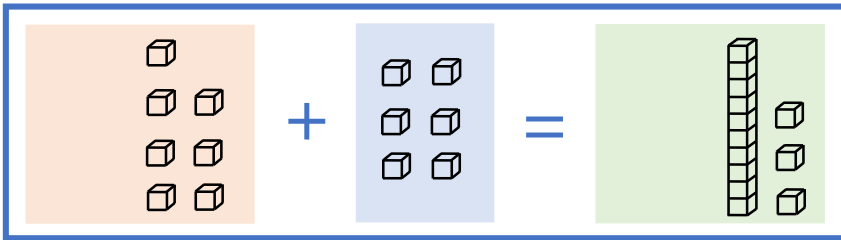


+

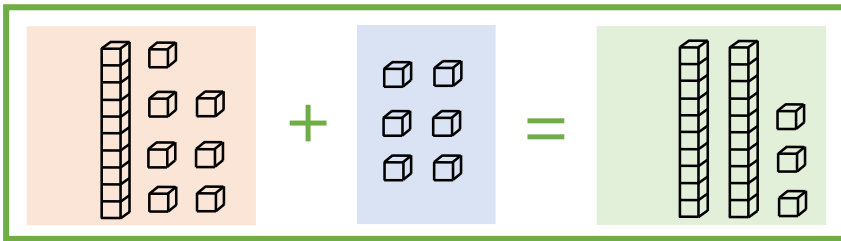
$$\square + \square = \square$$

$$\square + \square = \square$$

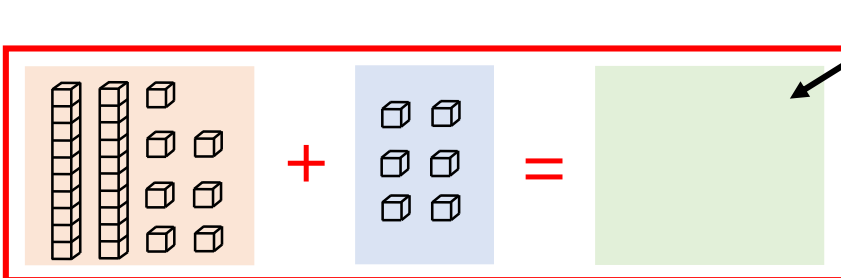
I know... so...



$$7 + 6 = \square$$



$$17 + 6 = \square$$

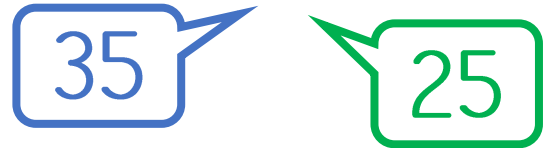


$$27 + 6 = \square$$

Which answer?

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75					

$$75 + \square = 100$$



Missing number

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64						

$$64 + \square = 100$$

I know... so...

$$36 + 20 = 56$$

$$36 + 23 = \square$$

$$36 + 20 = 56$$

$$36 + \square = 55$$

$$43 + 30 = 73$$

$$43 + 29 = \square$$

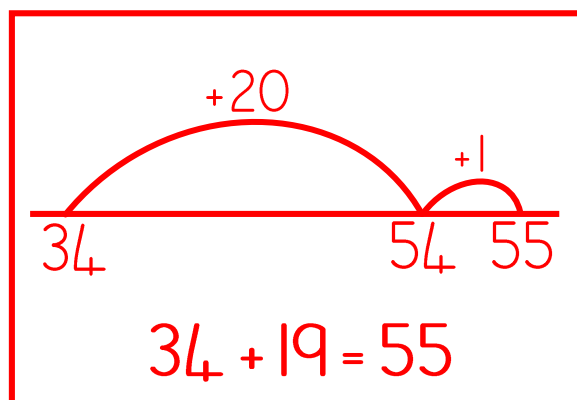
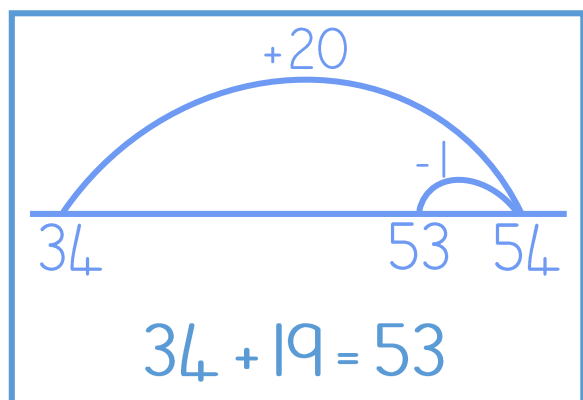
$$43 + 30 = 73$$

$$43 + \square = 75$$

Which answer?

✓ ✗

$$34 + 19$$



Which is harder?

Circle the harder question in each pair.

$16 + 7 \quad \text{OR} \quad 16 + 12$

$20 + 12 \quad \text{OR} \quad 19 + 12$

$70 + 14 \quad \text{OR} \quad 70 + 41$

Change the order

Which numbers do you add first?

$9 + 6 + 4 = \square$

Add $\square + \square$ first

$7 + 6 + 3 = \square$

Add $\square + \square$ first

$4 + 8 + 2 + 6 = \square$

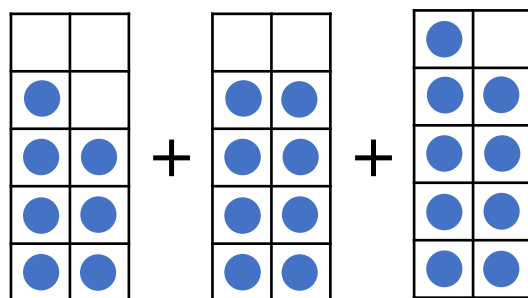
Add $\square + \square$ first

$8 + 5 + 3 = \square$

Add $\square + \square$ first

Different ways

$$7 + 8 + 9 = \square$$



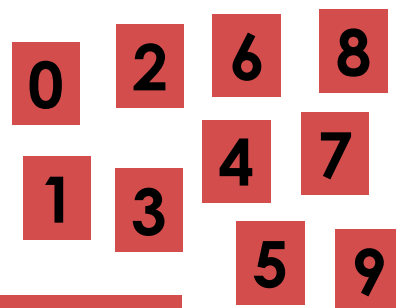
Add $\square + \square$
then add \square

30 take
away \square

3 lots
of \square

Digit cards game

You need digit cards 0 to 9



$$\square + \square = \square \square$$

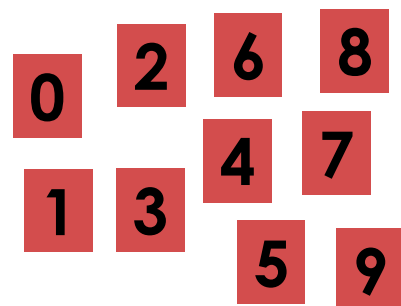


The answer is in the 5 times table.

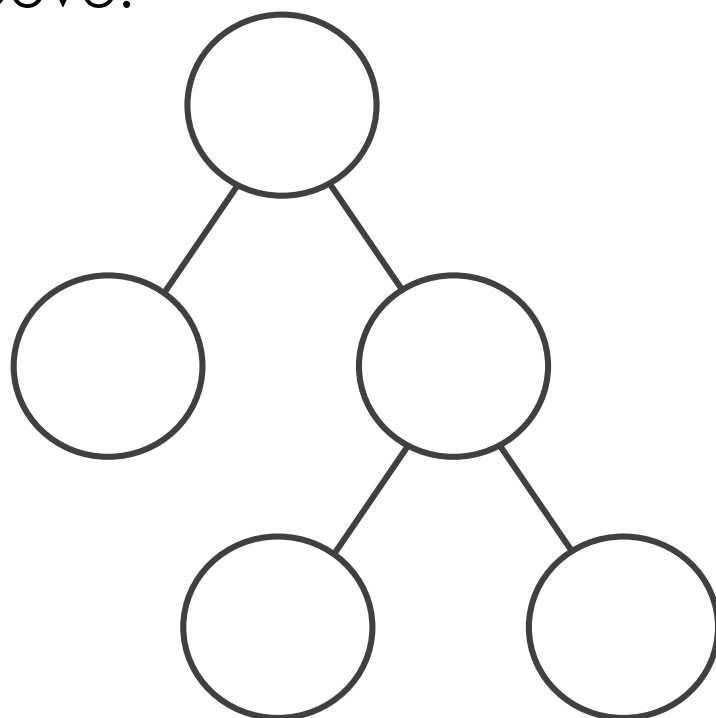
Do in different ways.

Digit cards game

You need digit cards 0 to 9



The two numbers in the circles below add to make the number in the circle above.

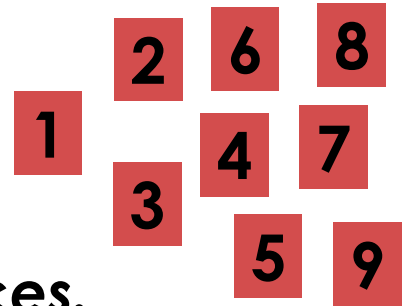


Do in different ways.

What is the smallest number that can go in the top circle?

Digit cards game

You need digit cards 1 to 9
Use each digit once.



Complete the number sentences.

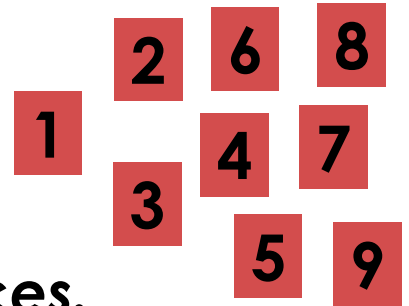
$$\square = \square + \square$$

$$\square + \square = \square$$

$$\square + \square > \square$$

Digit cards game

You need digit cards 1 to 9
Use each digit once.



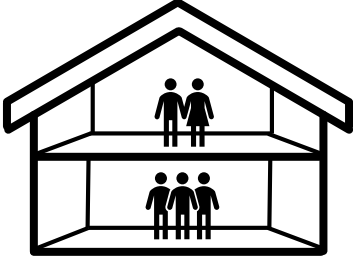
Complete the number sentences.

$$\square + \square < \square$$

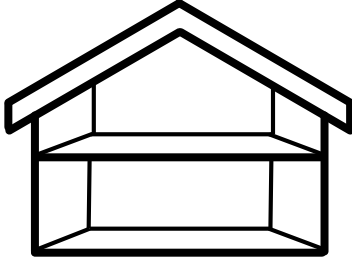
$$\square = \square + \square$$

$$\square < \square + \square$$

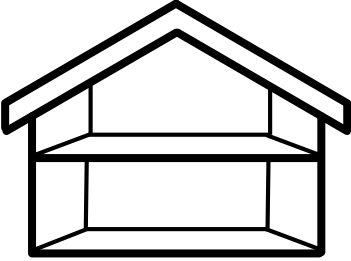
Finish the pictures



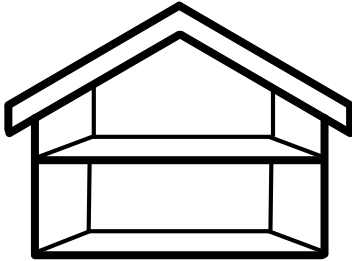
people upstairs
 people downstairs
 people in total



people upstairs
 people downstairs
 people in total



people upstairs
 people downstairs
 people in total



people upstairs
 people downstairs
 people in total

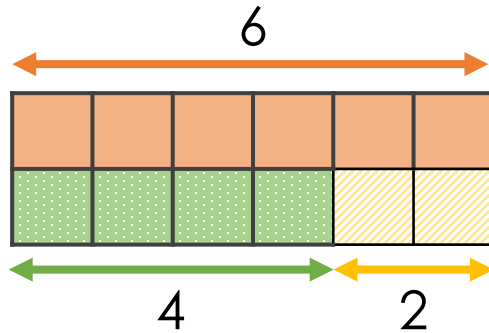
True or false? ✓ ✗

$$4 + 2 = 6$$

$$6 - 2 = 4$$

$$4 = 2 + 6$$

$$4 - 6 = 2$$



$$6 - 2 = 4$$

$$6 = 4 + 2$$

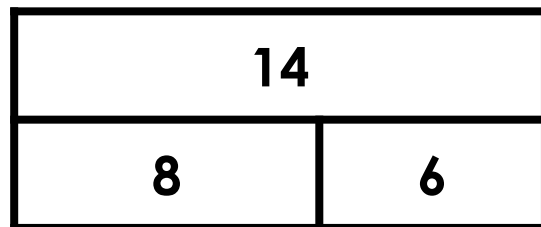
True or false? ✓ ✗

$$8 + 6 = 14$$

$$8 - 6 = 14$$

$$14 = 8 + 6$$

$$8 = 14 - 6$$



$$14 - 6 = 8$$

$$8 = 6 + 14$$

Which number sentence?

2 boys and 3 girls. How many children?

Which number sentence:

$$2 + \square = 3 \longleftarrow \text{OR} \longrightarrow 2 + 3 = \square$$

6 children. 4 girls. How many boys?

Which number sentence:

$$4 + \square = 6 \longleftarrow \text{OR} \longrightarrow 6 + 4 = \square$$

5 children. 1 boy. How many girls?

Which two number sentences:

$$5 = 1 + \square \quad 5 + 1 = \square \quad 5 - 1 = \square$$

4 girls. 7 children. How many boys?

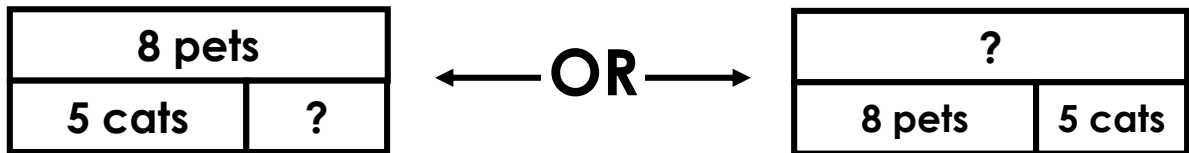
Which two number sentences:

$$7 + 4 = \square \quad 7 - 4 = \square \quad 7 = 4 + \square$$

Which picture?

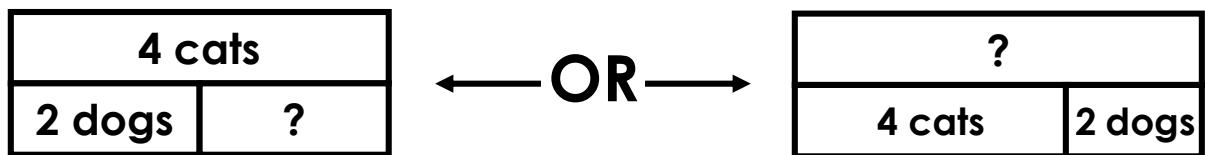
8 pets. 5 cats. How many dogs?

Which bar model:



2 dogs. 4 cats. How many pets?

Which bar model:



Odd one out

$5 + \square = 9$

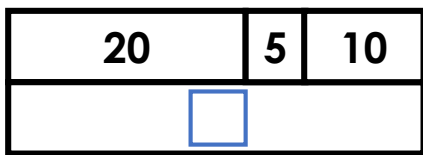
$5 + 9 = \square$

$9 - 5 = \square$

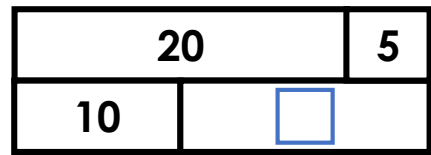
Which picture?

$$20 + 5 = 10 + \square$$

Which bar model:



← OR →



Which answer?

$$5 + 3 = \square - 2$$

10

6

8

Different ways

Fill the gaps. Do in different ways.

$$5 + \square = 10 - \square$$

How many ways can it be done?

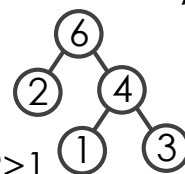
I SEE REASONING – KS1

Answers

Addition

Digit cards game (p44 q2): Possible solutions: $6+4=10$, $7+3=10$, $8+2=10$, $8+7=15$, $9+6=15$ (also, would you allow the use of 05 in the answer box?)

Digit cards game (p45): The smallest number in top circle is 6



Digit cards game (p46): Example solution: $8=6+2$ $3+4=7$ $5+9>1$

Missing numbers (p47): Example solution: $1+6<9$ $7=4+3$ $2<5+8$

Addition and subtraction

Different ways (p67 q3): Six ways ($5+0=10-5$, $5+1=10-4$, $5+2=10-3$, $5+3=10-2$, $5+4=10-1$, $5+5=10-0$)

To order *I See Reasoning – KS1* [click here](#).