

# **Checking Calculations**

# 43 × 6

The answer will be **odd/even**.

The answer will be a \_\_\_\_\_- digit number.

Of these numbers, the answer will be closest to:



# **Checking Calculations**

# 15 × 9

The answer will be **odd/even**.

The answer will be a \_\_\_\_\_- digit number.

Of these numbers, the answer will be closest to:





## **Explain the Mistakes**

43	15	
× 6	× 9	
2418	95	
	4	

## Part-Complete Examples

43	15
× 6	× 9
8	5
1	4

### **Different Methods**

Two ways of calculating 42 × 8: What's the same? What's different?

	40	2	320
8	320	16	336



#### Steps to understand short multiplication

Part-complete exa	Imples	
66	4 7	57
× 5	× 3	× 3
0	1	
3	2	

Checking calculations	Spot the mistake:
23 × 4	23
The answer will be <b>odd/even.</b>	× 4 Circle the
The answer will be a digit number.	<b>82</b> incorrect part
Dividing the answer by makes	1

Checking calculations	Spot the mistake:
45 × 5	4 5
The answer will be <b>odd/even.</b>	× 5 Circle the
Of these numbers, the answer will be closest to:	<b>220</b> incorrect part
175 215 275 325	2
Dividing the answer by makes	
Different methods	1
36 × 4 using 36 30	$\begin{array}{c} 6 \qquad 36 \times 4 \text{ using} \\ \mathbf{a} \text{ the arid} \end{array}$
method. × 4	method.
<b>2</b>	the gaps.

#### MULTIPLICATION

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# Checking Calculations 29 × 27

The answer will be **odd/even**.

### $25 \times 25 = 625$ $30 \times 30 = 900$

Estimation for **29 × 27 is** 

# **Checking Calculations**

# 76 × 57

The answer will be **odd/even**.

70 × 50 = 3500 80 × 60 = 4800

Estimation for **76 × 57 is** 

## **Checking Calculations**

Answer this question **without calculating**. Which numbers **cannot** be the answer to **39 × 38?** 

1602 1482 1543

Explain how you know.



### **Different Methods**

	50	2	2000
40	2000	80	80
3	150	6	+ 6

What is **the same?** What is **different?** 





# **Explain the Mistakes**

72	84
× 43	× 52
216	168
288	40200
404	40368

### Part-Complete Examples



MULTIPLICATION

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#### Steps to understand long multiplication

Spot the mistake:
63
× 53
159 Circle the 315 <sup>incorrect part</sup>
474





#### MULTIPLICATION

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# **Checking Calculations**

# 502 ÷ 15

Will the answer be a whole number?

Yes Possibly No

 450 ÷ 15 = 30
 600 ÷ 15 = 40

 Estimation for 502 ÷ 15 is
 600 ÷ 15 = 40

Multiplying the answer by **15** makes

# **Checking Calculations**

# 428 ÷ 24

Will the answer be a whole number?

Yes Possibly No

### 240 ÷ 24 = 10 480 ÷ 24 = 20

Estimation for **428 ÷ 24 is** 

Multiplying the answer by **24** makes



## How many digits?

For this task, **do not** work out the answers to the questions. For each question, the answer has **how many digits?** 



## How many digits?

For this task, **do not** work out the answers to the questions.

For each question, the answer has **how many digits?** 



### Written or Mental Method?

 176 ÷ 16
 1640 ÷ 10
 74 ÷ 8

 85 ÷ 5
 192 ÷ 12
 300 ÷ 20

### Written or Mental Method?

- 144 ÷ 16 516 ÷ 12 140 ÷ 14
  - 3000 ÷ 50280 ÷ 241000 ÷ 15



### **Next Step**











#### What is the best next step? Explain the mistakes.



#### What is the best next step?

Explain the mistakes.



### Which answer?

476 ÷ 14	14 476	•	Answers:
	420	14×30	(a) 34
	56		(b) 28
	56	14×4	(c) 304
	0		

### Which answer?

7/0 . 1/			Answers:
/60 ÷ 16	16   760	14× <b>/</b> 0	(a) 32
	120	16~40	(b) 47.8 (c) 47 <sup>1</sup>
	8	10 ^ /	(0) 17 2

### Part-Complete Examples

510 ÷ 15		540÷12		
15 510		12	558	
450	15×30		480	12×

#### Steps to understand long division

What's the answer?	
768 ÷ 24 =	760 ÷ 16 =
24 768	16 760
720 24	×30 640 16×40
48	120
48 24	×2 <u>112</u> 16×7
0	8





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