POWER MATHS

Year group:	3
Type of test:	End of Half Term
Term:	Autumn 2
Test content:	Reasoning
Power Maths topic:	Book 3A, Units 3–5
Test duration:	20 minutes

Name: _____

Class: _____

Date: _____

1 Here are three number cards.

| 5 | 50 | 500 |

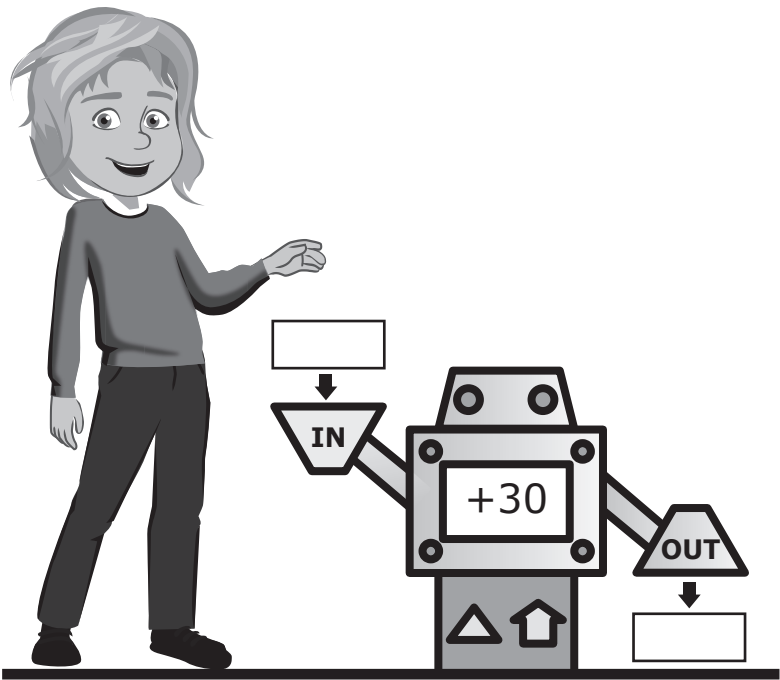Put a number card into each calculation to make them correct.

222 + ☐ = 722

222 + ☐ = 227

222 + ☐ = 272

✎

[1 mark]

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2 Danny put 3 numbers into the +30 machine.
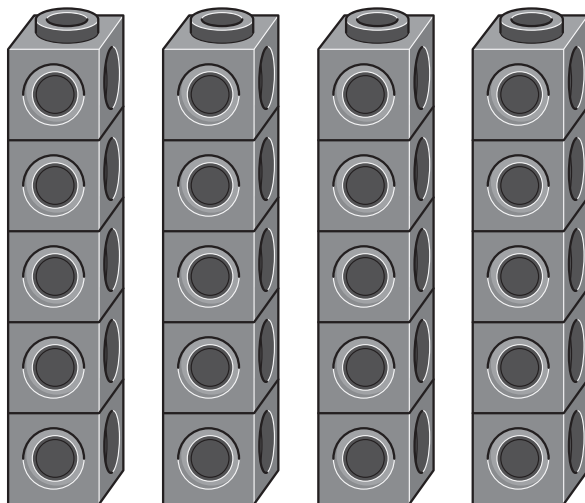
Complete the table to show the two missing numbers.

IN		OUT
245		275
466	**+30**	
		174

✎

[1 mark]

3 Complete the number statements below to match the picture.

There are ⬚ groups of ⬚ cubes.

⬚ + ⬚ + ⬚ + ⬚ = ⬚

⬚ × ⬚ = ⬚

[2 marks]

4 Alex has 5 plates with 3 cakes on each plate.

How many cakes are there in total?

| | cakes |

5 There are 235 boys and 243 girls in a school.

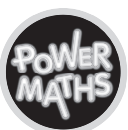How many children are there in total?

H	T	O

H	T	O

```
  H   T   O
_____

+ _____

  _____
```

| | children |

6 There were 367 people at the school fair.

135 people have gone home.

How many people are left at the fair?

H   T   O
_____

− _____
   _____

| people |

[1 mark]

7 Teddy bears cost £8. Ali buys 3 teddy bears.

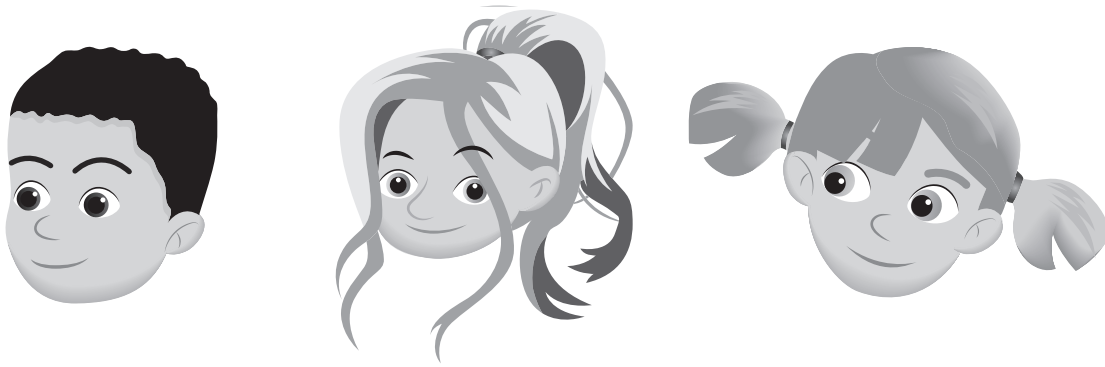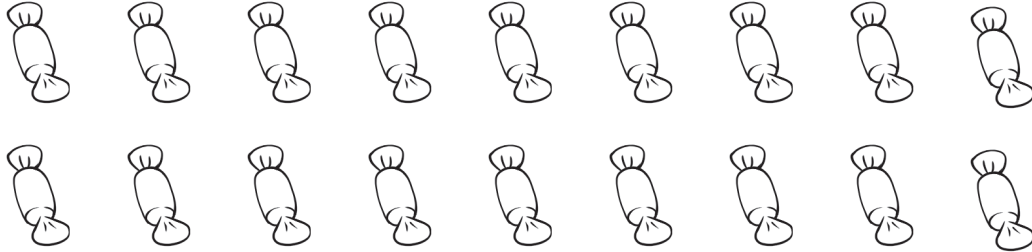What is the total cost of the teddy bears?

| £ |

[1 mark]

8 18 sweets are divided equally between 3 children.

How many sweets will each child get?

🖉

sweets

[1 mark]

9 Joe needs to sort the calculations into the table.

Estimate the answer to each calculation. Write each calculation in the correct column in the table.

186 + 203   946 − 431

Approximately 400	Approximately 500	Approximately 600

✎

Show your method

[2 marks]

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10 Oli says:

I had 265 stickers but I used 72. Now I have 193 left.

Use an addition to check this. Is Oli correct?

✏️

    H   T   O
    _____

+   _____
    _____

Circle one

Yes / No

[1 mark]

11 What is the missing number?

$32 \div 4 = 24 - \boxed{}$

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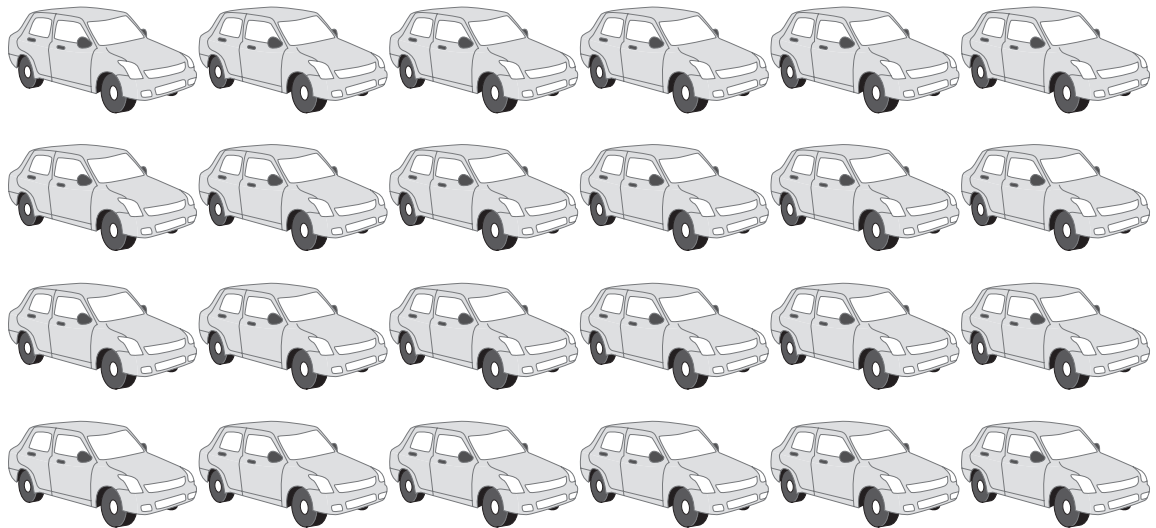
[1 mark]

12 Josie has 4 bags of toy cars.

There are 6 toy cars in each bag.

How many toy cars does she have altogether?

✏️

cars

[1 mark]

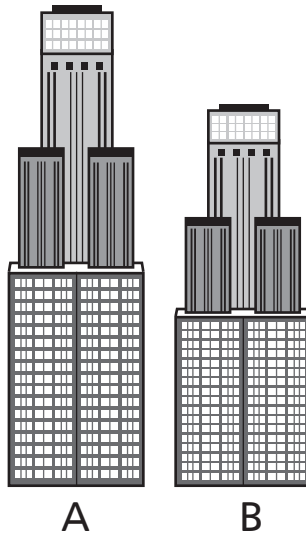**13** Building A is 426 m tall. Building B is 135 m shorter.

How tall is building B?

A   B

✏️

m

[1 mark]

14 Mrs. Cooper went to the bike shop and bought a mountain bike, a child's bike and a child's helmet.

How much did Mrs. Cooper spend on the three items? Use the bar model to help you calculate.

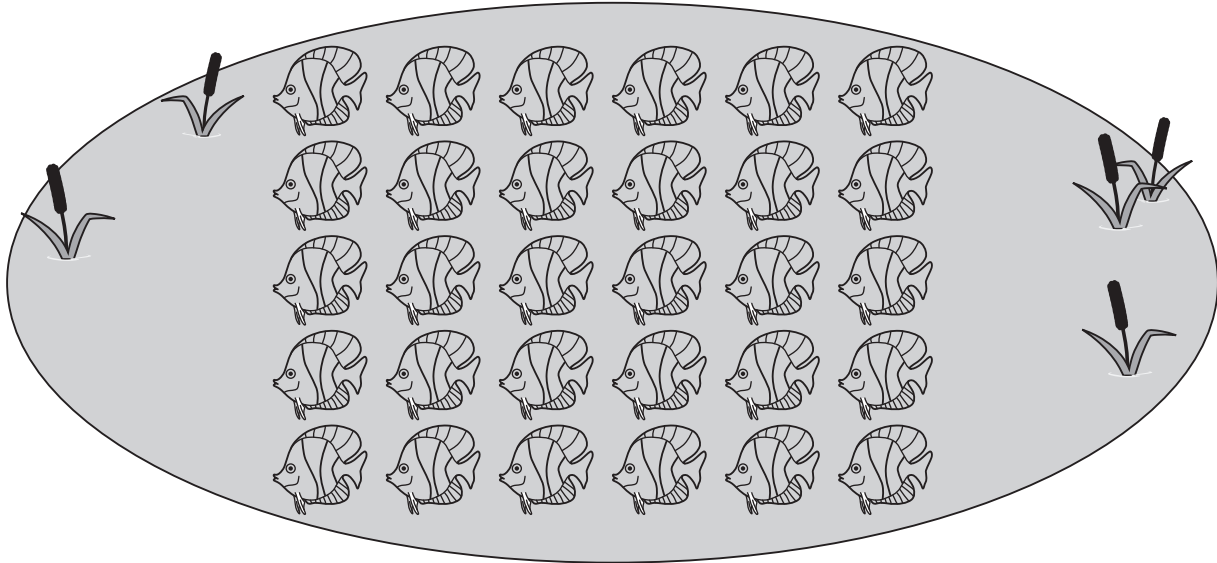| Mountain bike £235	Child bike £128	Adult helmet £29	Child helmet £18

£

[1 mark]

15 Look at the fish in the pond below.

What multiplication and division facts can you see about the fish? Write them in the boxes below.

✏️

☐ × ☐ = ☐   ☐ ÷ ☐ = ☐

☐ × ☐ = ☐   ☐ ÷ ☐ = ☐

[2 marks]

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