

Last term (Y6 Autumn term)

Work out the multiplications.

$$17 \times 562$$

$$23 \times 3,164$$

$$41 \times 5,312$$

Huan receives a new comic book every month.

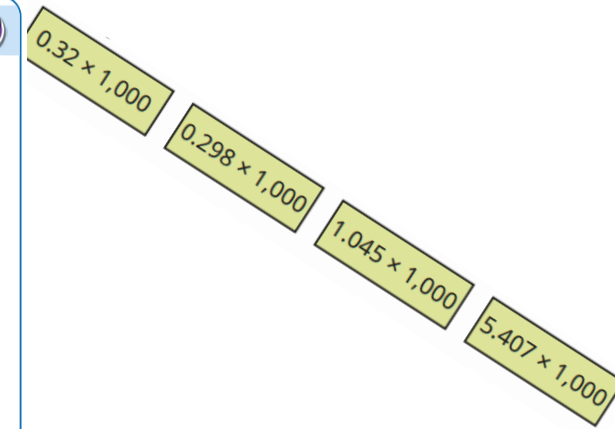
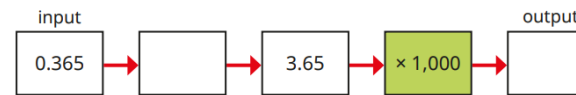
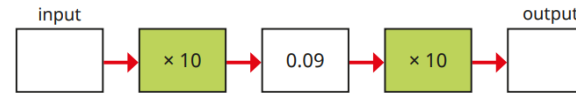
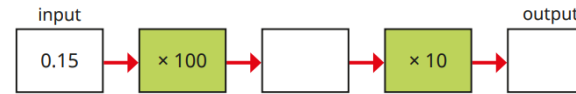
Each book has 36 pages.

He reads a comic book once a month for 6 years.

How many pages does Huan read altogether?

Previous learning... \times by 10, 100, 1000

Fill in the missing numbers.



We are currently learning... \times decimals by integers

- Dora uses place value counters to show that 6 lots of 2 is 12, and 6 lots of 0.2 is 1.2

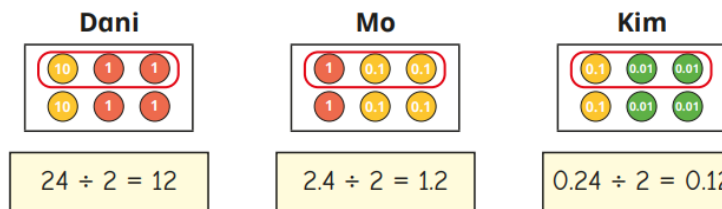


Use Dora's method to complete the calculations.

- | | | | |
|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|
| $\blacktriangleright 4 \times 2$ | $\blacktriangleright 5 \times 5$ | $\blacktriangleright 3 \times 4$ | $\blacktriangleright 12 \times 3$ |
| 4×0.2 | 0.5×5 | 3×0.4 | 1.2×3 |

We are learning next... \div decimals by integers

- Dani, Mo and Kim use place value counters to work out divisions.



What is the same about their divisions?

What is different about their divisions?

- | | | | |
|--------------------------------|--------------------------------|---------------------------------|---------------------------------|
| $\blacktriangleright 4 \div 2$ | $\blacktriangleright 9 \div 3$ | $\blacktriangleright 36 \div 6$ | $\blacktriangleright 15 \div 3$ |
| $0.4 \div 2$ | $0.09 \div 3$ | $3.6 \div 6$ | $0.15 \div 3$ |

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- 1,480 pencils are grouped into packets of 5
How many groups of 5 pencils are there?



- 650 children from a school go to a theme park.

On the first ride, each car seats 4 children.

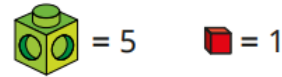
How many cars are needed for the whole school to go on the first ride?

On the second ride, each car seats 6 children.

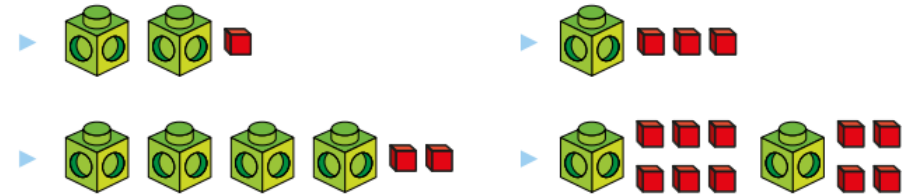
How many cars are needed for the whole school to go on the second ride?

Previous learning... Substitution

- Ann gives values to these cubes.



Work out the values of the sets of cubes.



We are currently learning... Fractions as division

- Write each fraction as a division.

▶ $\frac{3}{4}$ ▶ $\frac{7}{9}$ ▶ $\frac{112}{137}$

Write each division as a fraction.

▶ $2 \div 3$ ▶ $5 \div 8$ ▶ $24 \div 35$

We are learning next... Order fractions, decimals and percentages

- Teddy knows that $\frac{11}{20}$ is greater than a half and 42% is less than a half because it is less than 50%, so $\frac{11}{20}$ is greater than 42%.

Use Teddy's method to write "greater" or "less" to complete the sentences.

- ▶ 0.45 is _____ than $\frac{16}{30}$ ▶ $\frac{251}{500}$ is _____ than 15%.
- ▶ 50% is _____ than 0.309 ▶ $\frac{13}{24}$ is _____ than 0.5

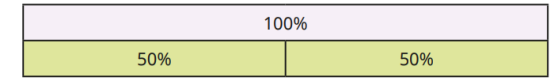
Last term (Y6 Autumn term)

| | | |
|---------------|---------------|---------------|
| $836 \div 11$ | $798 \div 14$ | $608 \div 19$ |
|---------------|---------------|---------------|

- A farmer packs 8,280 eggs into cartons of 24
Use long division to find the number of cartons needed.
Check your answer by dividing by factors.

Previous learning...
Percentage of amounts

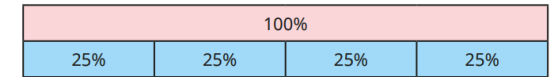
- There are two lots of 50% in 100%.



This means that to find 50% of an amount, you divide it by 2
Work out 50% of each number.



- There are four lots of 25% in 100%.



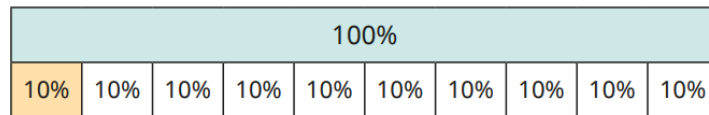
This means that to find 25% of an amount, you divide it by 4
Work out 25% of each number.



What do you notice about your answers?
Why does this happen?

We are currently learning... Percentages (missing values)

- If you know 10% of a number, you can multiply by 10 to find the whole.

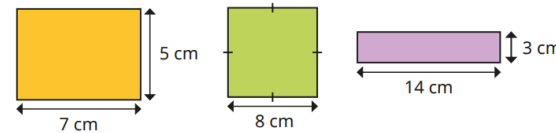


Work out the missing numbers.

- ▶ 10% of _____ = 2.8 ▶ 10% of _____ = 709
- ▶ 10% of _____ = 45p ▶ 10% of _____ = 38 g
- ▶ If 50% of a number is 123, what is the number?
- ▶ If 25% of a number is 45, what is the number?
- ▶ If 20% of a number is 70, what is the number?

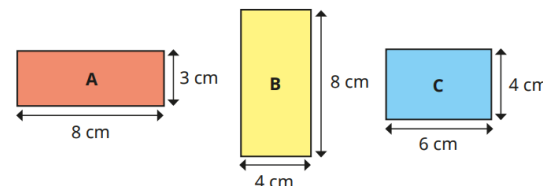
We are learning next... Area

- Find the areas of the rectangles.



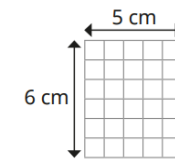
Explain your method to a partner.

- Which two rectangles have the same area?



How do you know?

- Complete the sentences to describe the rectangle.



The length of the rectangle is _____ cm.
The width of the rectangle is _____ cm.
The total number of squares in the rectangle is _____
The area of the rectangle is _____ cm²

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- Mrs Hall needs 380 cupcakes for a party.

Cupcakes are sold in boxes of 15

How many boxes of cupcakes does she need to buy?

Will she have any cupcakes spare?

How do you know?



- One day, a bakery produces 7,849 biscuits.

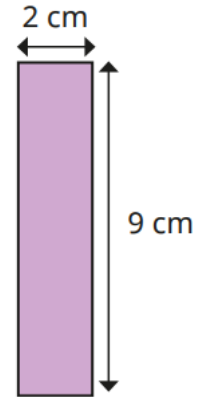
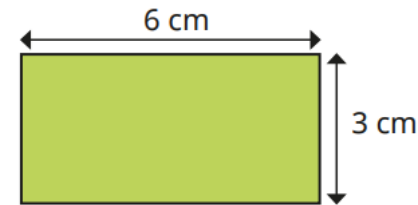
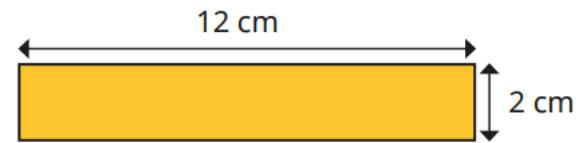
The biscuits are packed into boxes of 64 biscuits.

How many full boxes can be packed?



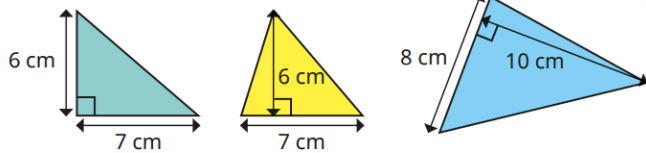
Previous learning... Area and perimeter

- Find the area and perimeter of each rectangle.



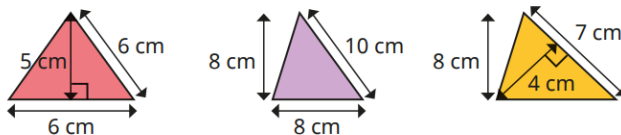
We are currently learning... Area of triangles

- Work out the areas of the triangles.



What is the same and what is different about the first two triangles?

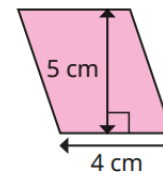
- Find the area of each triangle.



Use the formula $\text{area} = \frac{1}{2} \times \text{base} \times \text{perpendicular height}$ to work out the area of the triangle.

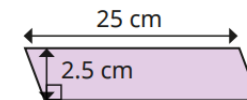
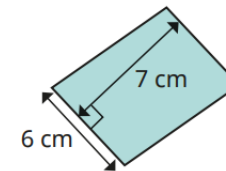
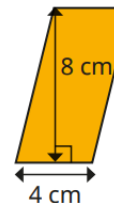
We are learning next... Area of parallelograms

- Annie has worked out the area of this parallelogram.



$$\begin{aligned} \text{area} &= \text{base} \times \text{perpendicular height} \\ &= 4 \text{ cm} \times 5 \text{ cm} \\ &= 20 \text{ cm}^2 \end{aligned}$$

Use Annie's method to find the areas of the parallelograms.



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- Work out the calculations.

$$6 \times 4 + 5 \times 2$$

$$6 \times 4 - 5 \times 2$$

$$6 \times (4 + 5) \times 2$$

- Dani has 7 bags with 5 sweets in each bag. She adds one more sweet to each bag. Which calculation shows how many sweets there are in total?

$$7 \times (5 + 1)$$

$$7 \times 5 + 1$$

- Work out the calculations.

$$6^2 - 3 \times 4$$

$$6^2 \div (4 + 5)$$

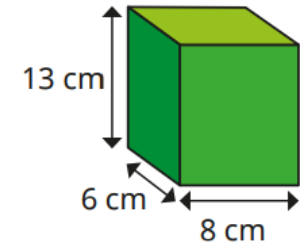
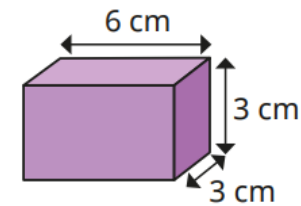
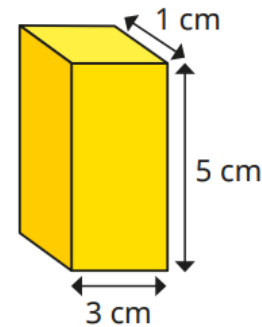
$$(7 - 4)^2$$

Previous learning... Volume of cuboids

Here is the formula for the volume of a cuboid.

$$\text{volume} = \text{length} \times \text{width} \times \text{height}$$

- Find the volumes of the cuboids.



We are currently learning...

- Some children in a class were asked to name their favourite sport. The results are shown in the pie chart.



Write **more** or **less** to complete the sentences.

- ▶ _____ than half of the class have cricket as their favourite sport.
- ▶ _____ than a quarter of the class have football as their favourite sport.

We are learning next... The mean

mean = total number ÷ number of items

- Here are the number of runs Jack scored in seven cricket matches.

134, 60, 17, 63, 38, 84, 10

Calculate the mean number of runs Jack scored in a match.

- The amount of money raised for charity by five children is shown in the table.

| Child | Amount raised |
|-------|---------------|
| Aisha | £24.55 |
| Sam | £29.60 |
| Tommy | £40 |
| Filip | £21.20 |
| Scott | £19.65 |

What is the mean amount of money raised by the children?