

Year 6 Maths Home Learning

Week six includes:

- 5 a day – one for each school day (set a timer for between 3 and 5 minutes)
- Maths I do you do – read the measure PowerPoint (40 minutes)
- Practice questions (60 minutes)
- Evidence questions (60 minutes)
- Problem solving questions (as long as it takes!)

5 A Day Week 6 Day 1

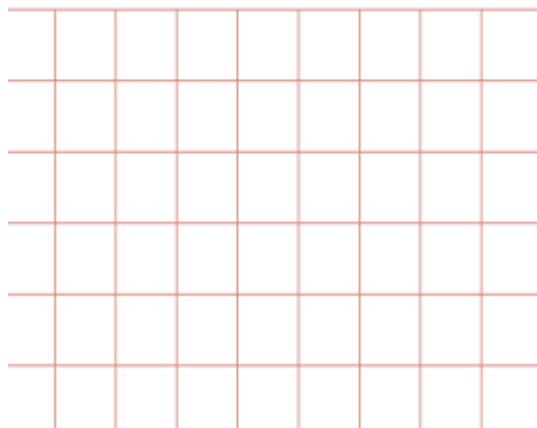
10×420

_____ = $873 + 427$



234×5

$16.72 + 34.272$



$4/5 - 7/15$



5 A Day Week 6 Day 2

		4	3	6	2	
	x			3	7	
<hr/>						

30% of 500

) 7362 ÷ 9

$\frac{3}{4} \times 7$

1	5	5	3	4	6	
<hr/>						

5 A Day Week 6 Day 3

$$563 \times 5$$

[illegible]

$$0.8 \times 1000$$

[illegible]

1/3 of 120

[illegible]

$$\underline{\hspace{2cm}} = 7832 - 437$$

12.2 ÷ 10

[illegible]

5 A Day Week 6 Day 4

15% x 1000

$$\frac{1}{3} \div 4$$

$$\frac{3}{5} \times 150$$

5 A Day Week 6 Day 5

30% of 700

A blank sheet of graph paper featuring a uniform grid of small squares. The grid consists of 10 columns and 8 rows, creating a total of 80 square units. The lines are thin and black, set against a white background. There are no margins or additional markings on the page.
$$6 - 3.45$$

178239 - 46758

[illegible]
$$4.005 + 7.89$$
[illegible] 763×5

Practice questions

P 1

Give the most appropriate unit of measurement:

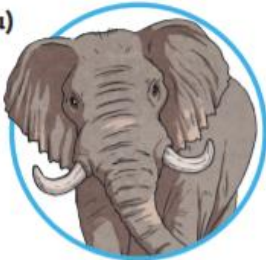


- height of a door _____
- volume of water in a glass _____
- length of a pencil point _____
- mass of a person _____
- length of a reading book _____
- mass of a rubber _____

P 2

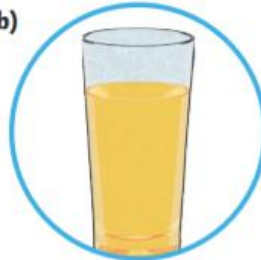
Tick the best estimation for each question.

a)



- ☐ 5kg
- ☐ 5 tonnes
- ☐ 500g
- ☐ 0.05 tonnes

b)



- ☐ 2ml
- ☐ 2l
- ☐ 20l
- ☐ 0.2l

c)

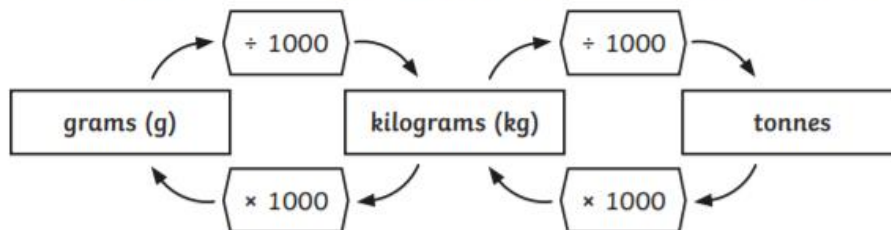


- ☐ 18m
- ☐ 1.8m

Use the conversion charts to help you convert between the different units of measurement.



P 3



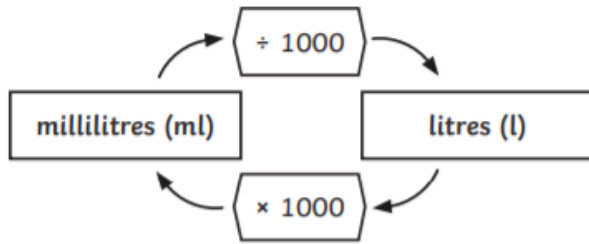
1)

g	kg
1500	
	0.8
3010	
	2.95

2)

kg	tonnes
	7
1500	
	0.9
4080	

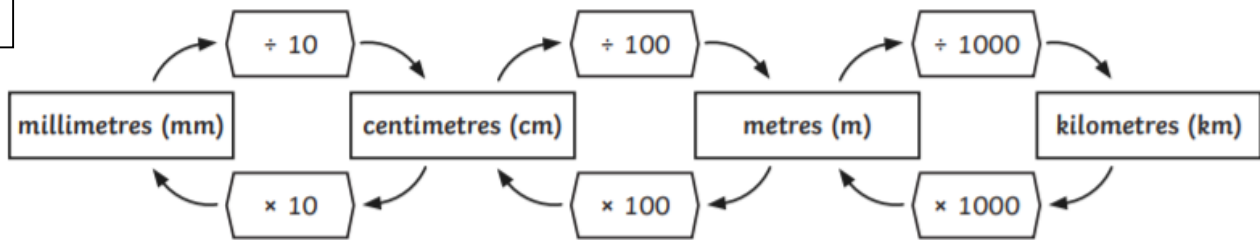
P 4



3)

ml	l
	7.5
950	
	0.065
1990	

P 5



4)

mm	cm	m	km
	20 000		
		412	
			1.1

P 6

Mr Smith needs to fill buckets of water. A large bucket holds 6 litres and a small bucket holds 4 litres. If a jug holds 250 ml and a bottle holds 500 ml suggest some ways of using the jug and bottle to fill the buckets.

Evidence questions

ARE 1

An average walking speed is 85m a minute. Daniel takes 30 mins to walk to school every day.

The distance Daniel currently walks to school is about $\frac{1}{9}$ of the distance between his primary school and his brother's secondary school.

Estimate how far Daniel lives from his brother's school.



ARE 2

If the average walking speed is 85m a minute, estimate how far you could walk if you walked continuously for:

- a) 6 hours _____
- b) A whole day _____
- c) A week _____
- d) A year _____

ARE 3

True or false? Correct any mistakes.

- a) $1.7\text{km} = 1.700\text{km} = 1700\text{m}$ _____
- b) $10\,001\text{g} < 10.1\text{kg} > 0.1\text{ tonnes}$ _____

ARE 4

Use the statements to match each volume of orange squash given below to each of the bottles.

Volumes:	
0.11l	0.25l
0.9l	775ml
150ml	



Contains more than bottle B but less than Bottle C.



Contains between 0.1 and 0.2l.



Contains 0.025l more than $\frac{3}{4}$ l.



Contains a lower volume of orange squash than Bottle B.



Contains more than bottle C.



ARE 5

A teacher is buying pencils for the school.

Each pencil has a mass of 2.35g.

There are 38 pencils in each box.

The teacher decides to buy 30 boxes of pencils for the school.

Give the total mass of the pencils she has bought, in kilograms.

ARE 6

Finlay has a piece of string which measures 0.9m. He cuts off a piece measuring 15cm and then cuts the remaining string into three equal pieces. How long is each piece?

ARE 7

Mo cycles 45 miles over the course of 3 days.

On day 1, he cycles 16 km.

On day 2, he cycles 10 miles further than he did on day 1

How far does he cycle on day 3?

Give your answer in miles and in kilometres.

ARE 8

The distance between Cardiff and London is 240 km.

A car is travelling at 60 mph.

How long will it take them to get to London from Cardiff?

ARE 9

Chen, Megan and Sam have parcels. Megan's parcel weighs 1.2kg and Chen's parcel is 1500g and Sam's parcel is half the weight of Megan's parcel. Write down some other statements about the parcels. How much heavier is Chen's parcel than Megan's?

ARE 10

A square has the perimeter of 12 cm. When 4 squares are put together, the perimeter of the new shape can be calculated. For

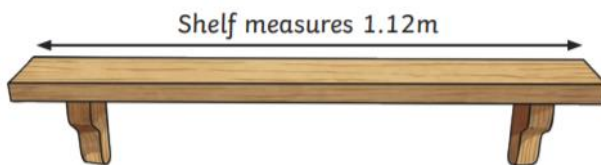
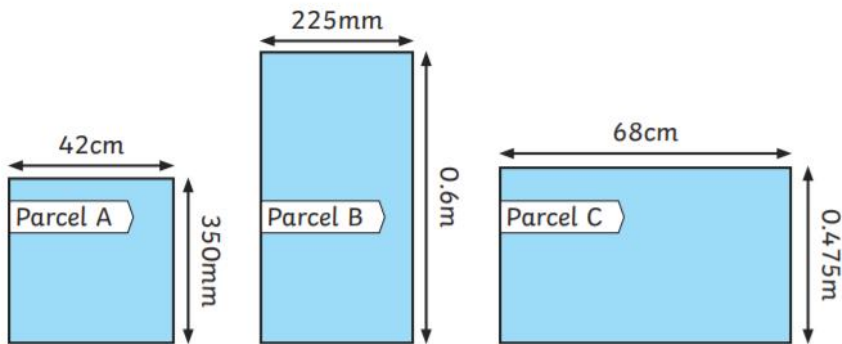


example:

What arrangements will give the maximum perimeter?

Problem solving challenge

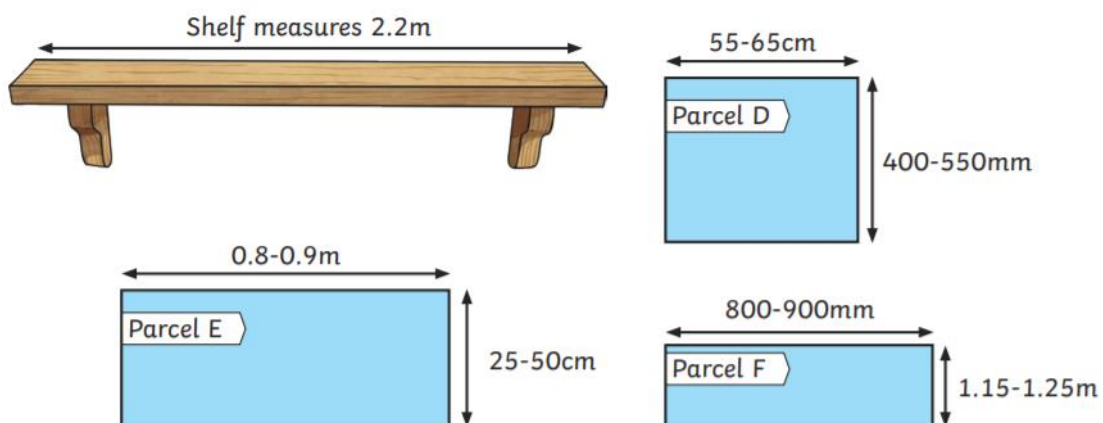
Patsy, the postal worker, is arranging some parcels on the shelves in the post office.



- 1) How could she arrange the three parcels so that they sit on the shelf with no gaps?
(Think about turning the parcels round so they could fit.)

- 2) How could Patsy fit the same parcels on a shelf which measures 1.05m?

- 3) Patsy receives three more parcels. When placed on the shelf below, there are no gaps between them.



Give the possible dimensions for each parcel so that all three parcels can be arranged on the shelf with no gaps.
Find three different possible answers.
