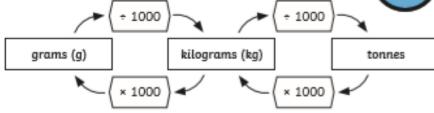


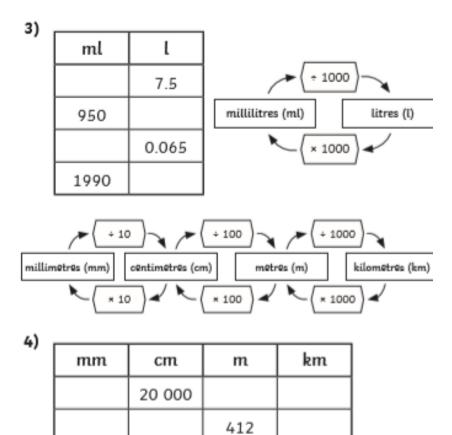
Use the conversion charts to help you convert between the different units of measurement.





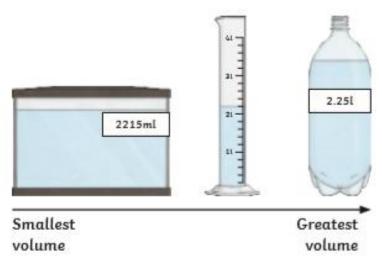
1)			2)	
-	g	kg		kg
	1500			
		0.8		1500
	3010			
		2.95		4080

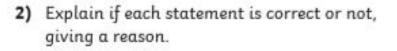
kg	tonnes
	7
1500	
	0.9
4080	



1.1

- 1) True or false? Correct any mistakes.
 - a) 1.7km = 1.700km = 1700m
 - b) 10 001g < 10.1kg > 0.1 tonnes
 - c) The three volumes shown are correctly ordered from smallest to greatest.



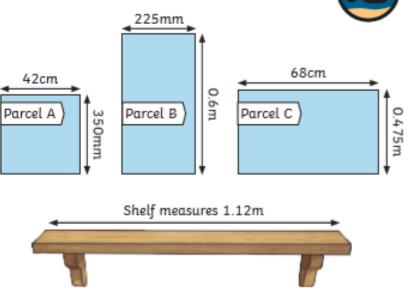




- a) 100 of these rulers put together could measure 15 metres.
- b) 1000 of these rulers put together would make a distance greater than a km.
- c) If I had a pencil point measuring 0.5mm, I would need 300 of them to make a length equal to the length this ruler can measure.

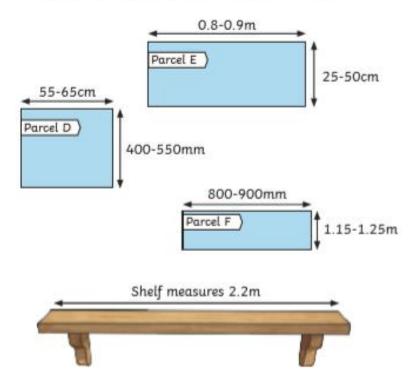


Patsy, the postal worker, is arranging some parcels on the shelves in the post office.



- 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?

 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.

ANSWERS

1) g kg 1500 *I.s* 800 0.8 3010 3.01 2950 2.95

2)		
	kg	tonnes
	7000	7
	1500	1.5
	900	0.9
	4080	4.08

3)		
-,	ml	L
	7500	7.5
	950	0.95
	65	0.065
	1990	1.99



4)

mm	cm	m	km
200 000	20 000	200	0.2
412 000	41 200	412	0.412
1 100 000	110 000	1100	1.1

- 1) a) True. 1.7km and 1.700km show the same amount in km and 1700m is equal to 1.7km.
 - b) False. 10 001g < 10.1kg < 0.1 tonnes
 - c) False. At the moment they are ordered 2215ml, 2200ml and 2250ml. The measuring cylinder needs to be swapped with the aquarium.
- 2) a) Incorrect. Because the rulers are slightly longer than 15cm, 100 of them would measure more than 15m.
 - b) Incorrect. 1000 × 15cm = 15 000cm or 0.15km which is less than 1km.
 - c) Correct. 2 pencil points make Imm, so 20 make Icm and 20 × 15 = 300.
- 1) 42cm (A) + 22.5cm (B) + 47.5cm (C) = 112cm
- 2) 35cm (A) + 22.5cm (B) + 47.5cm (C) = 105cm
- 3) Various answers are possible to make a total length of 220cm. For example: Parcel D height of 500mm + parcel E length of 0.85m + parcel F length of 850mm = 2.2m Parcel D height of 500mm + parcel E height of 50cm + parcel F height of 1.2m = 2.2m Parcel D height of 400mm + parcel E length of 0.9m + parcel F length of 900mm = 2.2m

