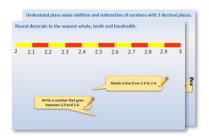
Week 12, Day 2

Find percentages of amounts

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



Tackle the questions on the Practice Sheet.
 There might be a choice of either Mild (easier) or Hot (harder)!
 Check the answers.

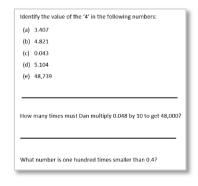


3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

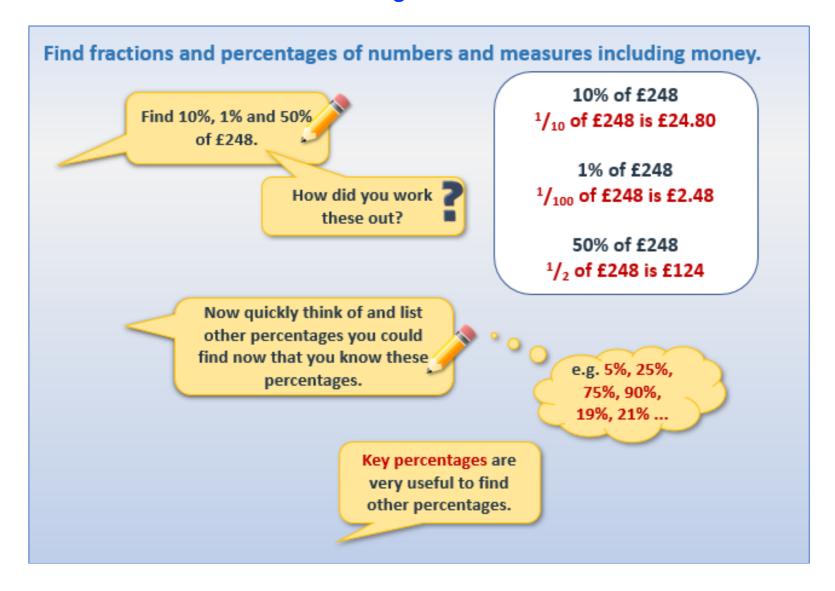


 Have I mastered the topic? A few questions to Check your understanding.

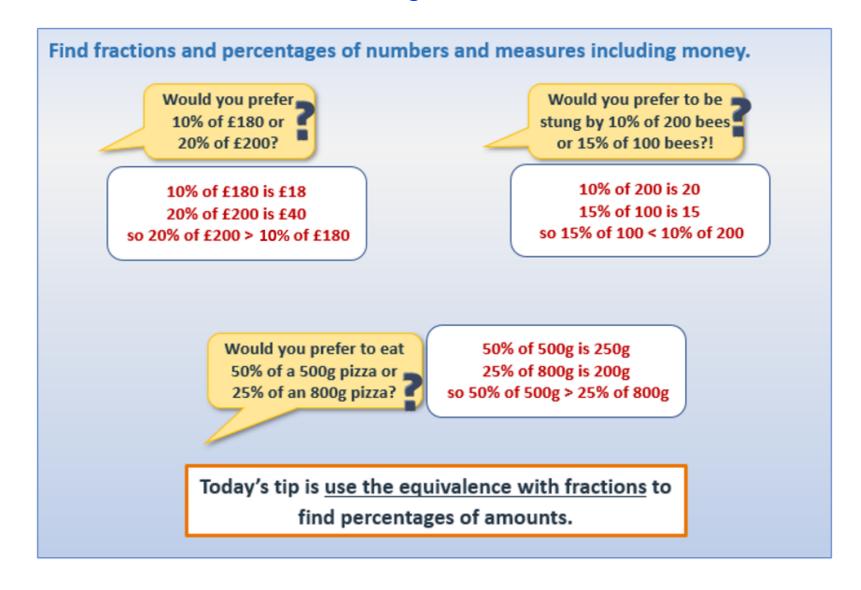
Fold the page to hide the answers!



Learning Reminders



Learning Reminders



Practice Sheet Mild Finding fractions and percentages

- 1. Find 10% of £25, 340m, 46kg and 75cm.
- 2. Find 10%, then 5% and then 15% of 300, 240, 160 and 140.
- 3. Find 50%, then 25% of 480km, £26, 6.8 litres and 14kg.
- 4. Find the new prices in the summer sales.









Practice Sheet Hot

Finding fractions and percentages

- 1. Find 10% of £75, 460g, 58m, 36cm
- 2. Find 15% of 600, 90, 360, 248
- 3. Find 25% of 580km, £26, 2.8 litres and 14kg.
- 4. Find the new prices in the summer sales.









- 5. What is £7.50 as percentage of £10?
- 6. What is £4 as a percentage of £5?
- 7. What fraction of 2kg is 250g?

£10 is 100%					
£7.50 is _	%				

		£5	
£4 is _	%		

2ka					
2kg					

8. A shop has offers on two sizes of packets of biscuits. Which is the best value?





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Practice Sheets Answers

Finding fractions and percentages (mild)

1. Find 10% of:

£25 = £2.50 340m = 34m 46kg =
$$4.6$$
kg 75cm = 7.5 cm

- 2. 10% of 300 = 30 5% of 300 = 15 15% of 300 = 45 10% of 240 = 24 5% of 240 = 12 15% of 240 = 36 10% of 160 = 16 5% of 160 = 8 15% of 160 = 24 10% of 140 = 14 5% of 140 = 7 15% of 140 = 21
- 3. 50% of 480km = 240km 25% of 480km = 120km 50% of £26 = £13 25% of £26 = £6.50 50% of 6.8 litres = 3.4 litres 50% of 14kg = 7kg 25% of 14kg = 3.5kg
- 4. £120 10% = £108 £240 50% = £120 £100 20% = £80 £200 20% = £160

Finding fractions and percentages (hot)

- 1. 10% of: £25 = £7.50 460g = 46g 58m = 5.8m 36cm = 3.6cm
- 2. 15% of: 600 is 90 90 = 13.5 360 = 54 248 = 37.2
- 3. 25% of: 580km = 145km £26 = £6.50 2.8 litres = 0.7 litres 14kg = 3.5kg
- 4. 10% off £120 = £108 50% off £248 = £124 20% off £100 = £80 30% off £140 = £98
- 5. What is £7.50 as percentage of £10? 75%
- 6. What is £4 as a percentage of £5? 80%
- 7. What fraction of 2kg is 250g?
- 8. A shop has offers on two sizes of packets of biscuits. Which is the best value?

Digestive biscuits are the best value.

Rich tea biscuits: 20% off £1 = 80p for 500g

Digestive biscuits 400g + 25% extra = 75p for 500g

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A Bit Stuck?

The key to percentages

Work in pairs

Things you will need:

- Your four 100 grids with key equivalent percentages and fractions from the whole group activity
- A pencil



What to do:

 Write the four KEY equivalent percentages and fractions:

1% of 400 is 10% of 400 is 25% of 400 is 50% of 400 is 1% of 800 is 10% of 800 is 25% of 800 is 50% of 800 is

1% of 500 is 10% of 500 is 25% of 500 is 50% of 500 is 1% of 600 is 10% of 600 is 25% of 600 is 50% of 600 is

S-t-r-e-t-c-h:

Find 11% and 75% of 400. Can you find any other percentages using the four key equivalent fractions of $\frac{1}{100}$, $\frac{1}{10}$, $\frac{1}{2}$ and $\frac{1}{4}$?

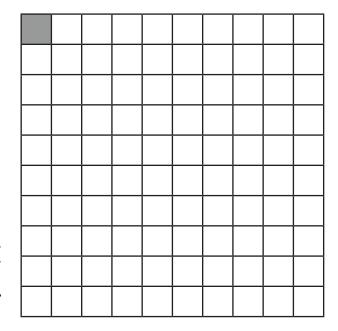
Learning outcomes:

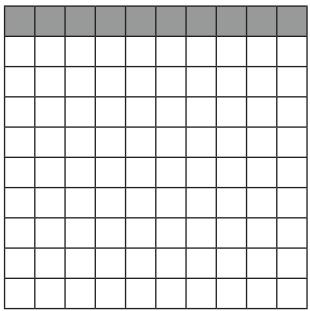
- I can use equivalent percentages and fractions to find 1%, 10%, 25% and 50% of amounts.
- I am beginning to use these key equivalent percentages and fractions to find other percentages of amounts.

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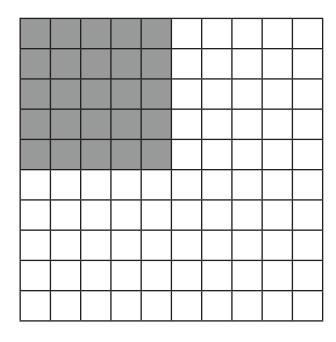
A Bit Stuck? The key to percentages

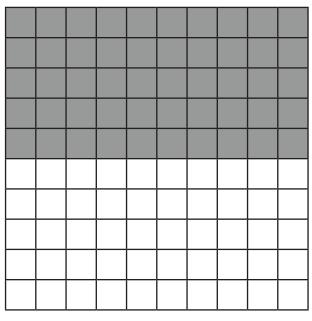




$$1\% = \frac{1}{100}$$

$$10\% = \frac{10}{100} = \frac{1}{10}$$





$$25\% = \frac{25}{100} = \frac{1}{4}$$

$$50\% = \frac{50}{100} = \frac{5}{10} = \frac{1}{2}$$

Check your understanding Questions

Find 10% of these prices. Use that to find 20% and 30%.

- (a) £14.20
- (b) £1.50
- (c) £99

Which is longer, 25% of 200m or 15% of 300m? Which is heavier, 30% of 600g or 20% of 800g?

Fold here to hide answers.

Check your understanding Answers

Find 10% of these prices. Use that to find 20%.

- (a) £14.20 10% is £1.42, 20% is £2.84, 30% is £4.26
- (b) £1.50 10% is £0.15 or 15p, 20% is £0.30 or 30p, 30% is £0.45 or 45p.
- (c) £99 10% is £9.90, 20% is £19.80, 30% is £29.70

Divide by 10 to find 10%.

Double 10% to find 20%.

Add 10% and 20% to find 30%.

Which is longer, 25% of 200m or 15% of 300m? 25% of 200m, as 25% of 200m is 50m and 15% of 300m is 45m.

Which is heavier, 30% of 600g or 20% of 800g? 30% of 600g, as 30% of 600g is 180g and 20% of 800g is 160g.