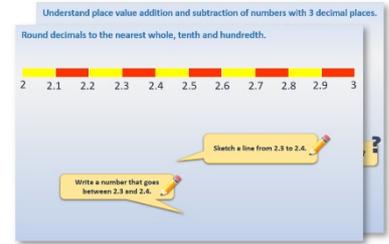


Year 6: Week 3, Day 5

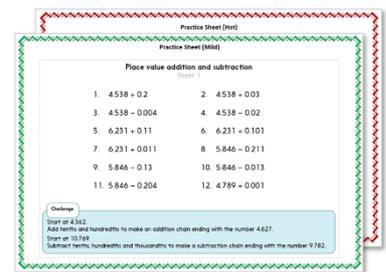
Find percentages of amounts

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

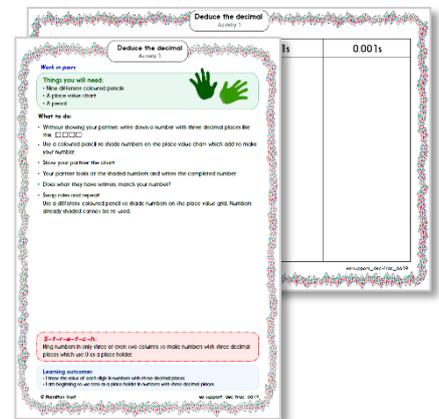
- Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



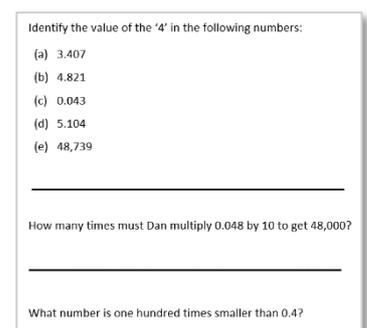
- Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



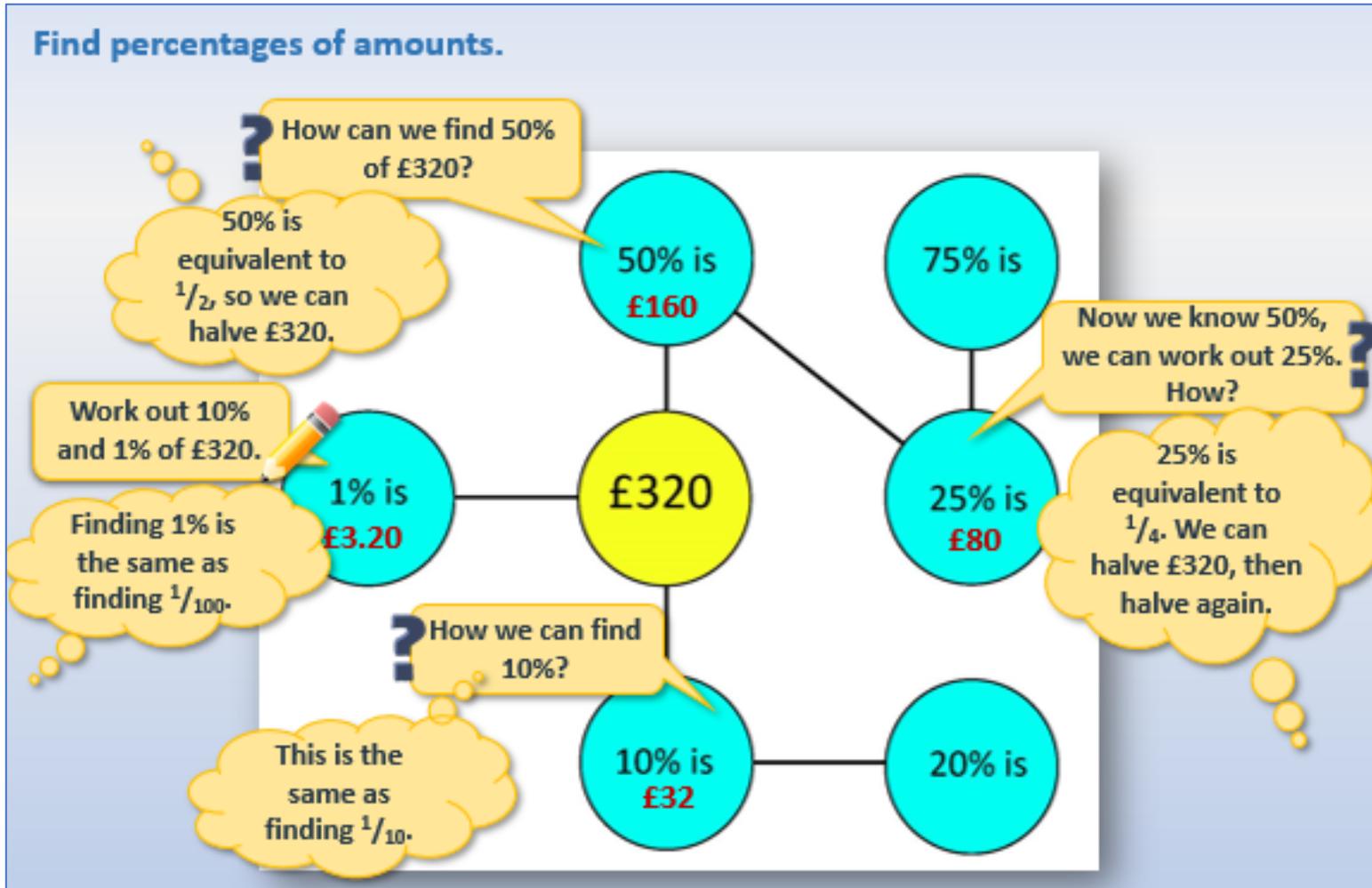
- Finding it tricky? That's OK... have a go with a grown-up at **A Bit Stuck?**



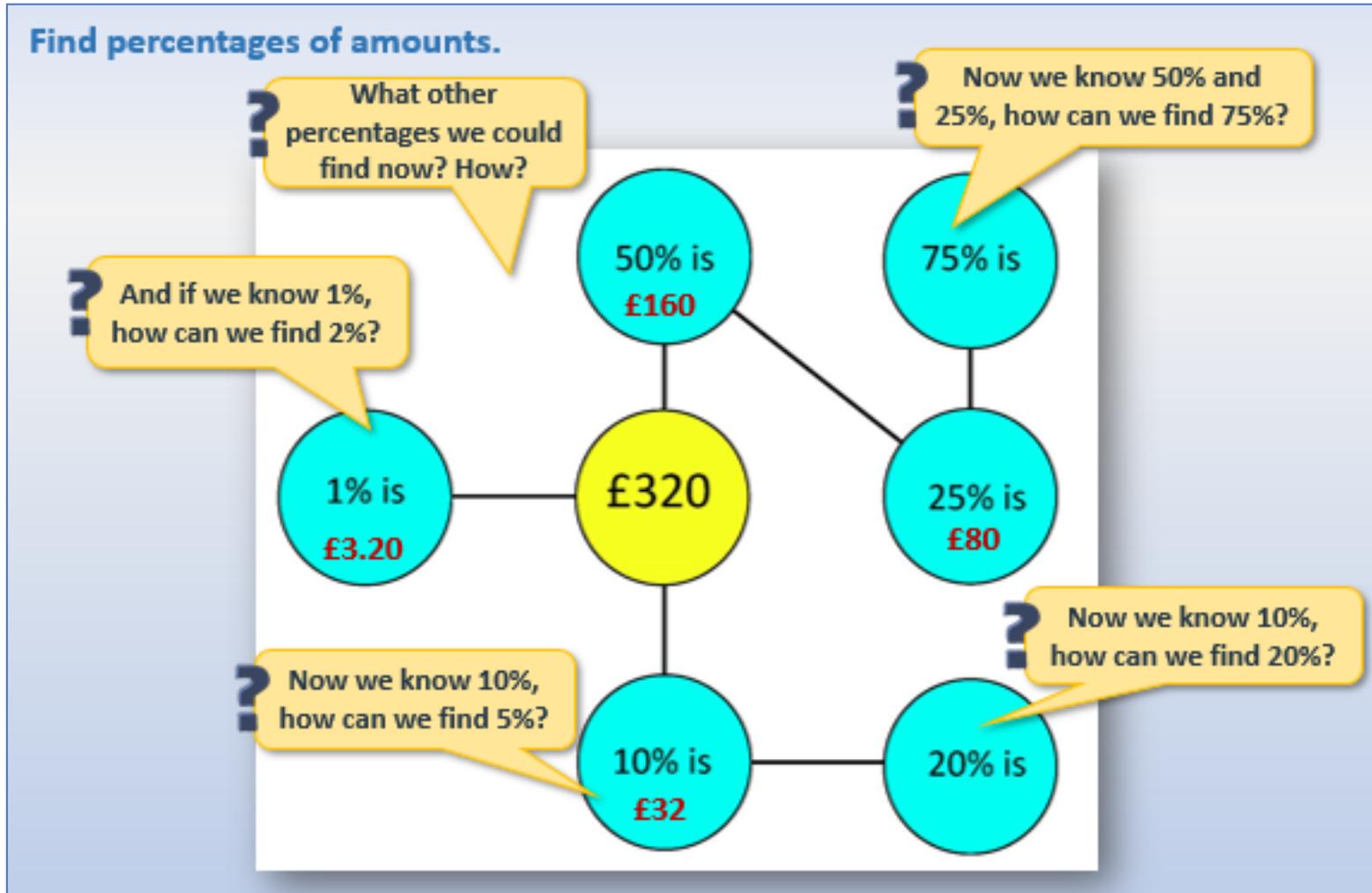
- Have I mastered the topic? A few questions to **Check your understanding**. Fold the page to hide the answers!



Learning Reminders



Learning Reminders



Practice Sheet Mild

Find percentages of amounts of money

Remember that: $50\% = \frac{1}{2}$ $25\% = \frac{1}{4}$ $10\% = \frac{1}{10}$ $1\% = \frac{1}{100}$

50% of £120 is 25% of £120 is 75% of £120 is 10% of £120 is 1% of £120 is

50% of £250 is 25% of £250 is 75% of £250 is 10% of £250 is 1% of £250 is

10% of £280 is 20% of £280 is 5% of £280 is 40% of £280 is 90% of £280 is

10% of £320 is 20% of £320 is 5% of £320 is 40% of £320 is 90% of £320 is

Practice Sheet Hot

Find percentages of amounts of money

Find the following percentages of £360.

50%

10%

25%

75%

20%

60%

90%

5%

1%

6%

11%

Find the following percentages of £248.

50%

10%

25%

75%

30%

60%

90%

5%

1%

16%

99%

Challenge

Find three different ways to calculate 96% of £360.

Practice Sheet Answers

Find percentages of amounts of money (mild)

50% of £120 is £60
10% of £120 is £12

25% of £120 is £30
1% of £120 is £1.20

75% of £120 is £90

50% of £250 is £125
10% of £250 is £25

25% of £250 is £62.50
1% of £250 is £2.50

75% of £250 is £187.50

10% of £280 is £28
40% of £280 is £112

20% of £280 is £56
90% of £280 is £252

5% of £280 is £14

10% of £320 is £32
40% of £320 is £128

20% of £320 is £64
90% of £320 is £288

5% of £320 is £16

Find percentages of amounts of money (hot)

50% of £360 is £180
75% of £360 is £270
90% of £360 is £324
6% of £360 is £21.60

10% of £360 is £36
20% of £360 is £72
5% of £360 is £18
11% of £360 is £39.60

25% of £360 is £90
60% of £360 is £216
1% of £360 is £3.60

50% of £248 is £124
75% of £248 is £186
90% of £248 is £223.20
16% of £248 is £39.68

10% of £248 is £24.80
30% of £248 is £74.40
5% of £248 is £12.40
11% of £248 is £27.28

25% of £248 is £62
60% of £248 is £148.80
1% of £248 is £2.48

A Bit Stuck? Special people

Work in pairs, but write your answers on your own sheet

Things you will need:

- A picture of 300 people



What to do:

2% of people around the world have green eyes. This means 2 out of every 100 people are likely to have green eyes. Ring 2 people out of 100 on the picture.

How many people out of 200 people are likely to have green eyes? ____

How many people out of 300 people are likely to have green eyes? ____

So how many people out of 400 people do you think will have green eyes? ____

How many people out of 500 people do you think will have green eyes? ____

12% of people around the world are left-handed.

How many people out of 100 are likely to be left-handed? ____

How many people out of 200 are likely to be left-handed? ____

How many people out of 300 are likely to be left-handed? ____

How many people out of 400 do you think will be left-handed? ____

How many people out of 500 do you think will be left-handed? ____

6% of people in the UK have red hair.

How many people out of 100 are likely to have red hair? ____

How many people out of 200 are likely to have red hair? ____

How many people out of 300 are likely to have red hair? ____

How many people out of 400 do you think will have red hair? ____

How many people out of 500 do you think will have red hair? ____

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

How many people out of 100 people do NOT have green eyes?

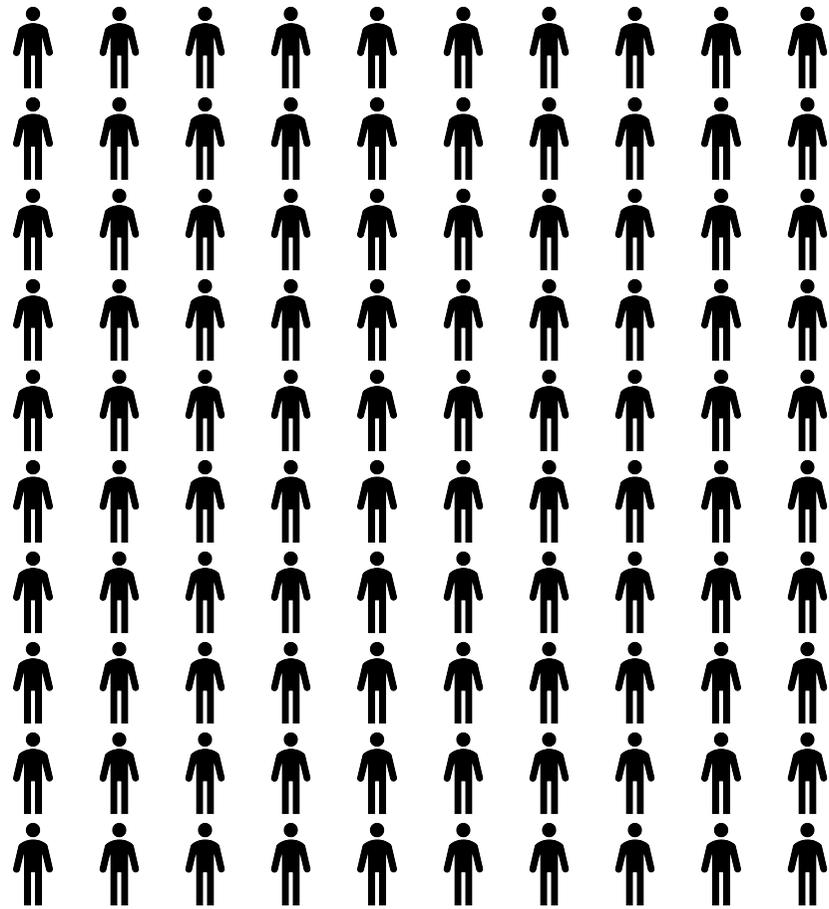
How many people out of 100 are right-handed?

How many people out of 100 do not have red hair in the UK?

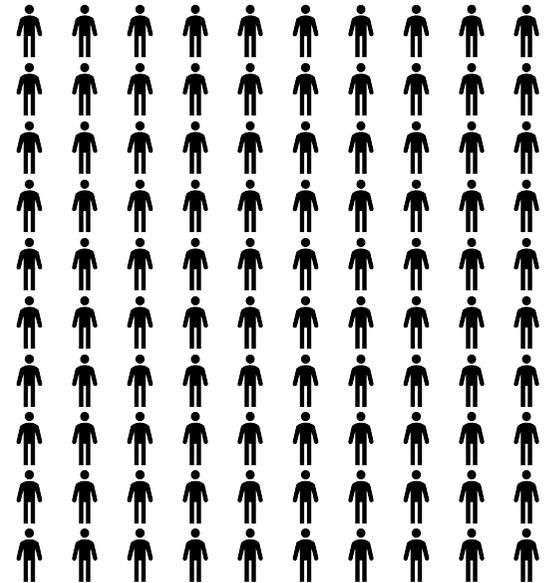
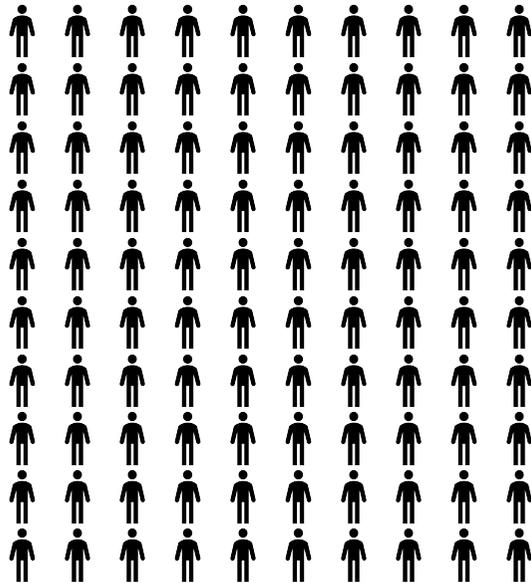
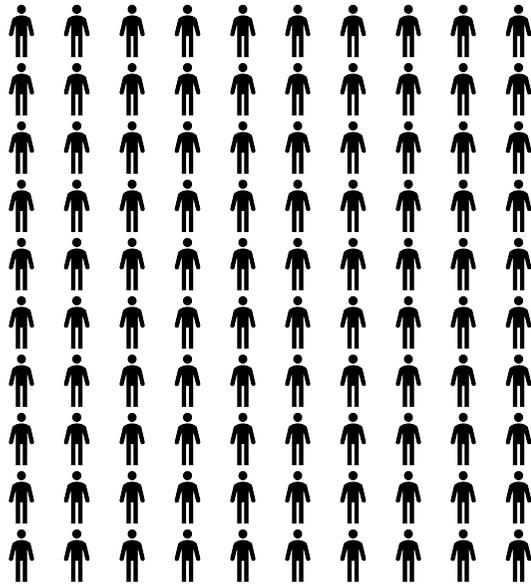
Learning outcomes:

- I understand what a percentage is.
- I can find percentages of multiples of 100.
- I am beginning to solve simple percentage problems.

A Bit Stuck? Special people



A Bit Stuck? Special people



Check your understanding

Questions

True or false?

- $\frac{2}{5}$ is the same as 20%
- 0.4 is the same as 4%
- 10% is the same as 0.1
- 30% is the same as $\frac{1}{3}$

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

- a) £14.20
- b) £1.50
- c) £99

Fold here to hide answers

Check your understanding

Answers

True or false?

- $\frac{2}{5}$ is the same as 20% False, it is equivalent to 40%.
- 0.4 is the same as 4% False, it is also equivalent to 40%.
- 10% is the same as 0.1 True.
- 30% is the same as $\frac{1}{3}$ False, 30% is equivalent to $\frac{3}{10}$.

These can be checked on a 0-1 (100%) number line showing fraction, decimal and percentage equivalents.

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

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

Divide by 10 to find 10%. Double 10% to find 20%.