



# Percentages

## Mental Maths Warm Up

Answer these as quickly as you can, saying your answer out loud or in your head...

- Write  $\frac{23}{100}$  as a percentage.
- What is 71% as a fraction?
- To find 10% of a number, you divide by 10.  
What should you divide by to find 5% of a number?

Now try these. Do your working in the spaces, and copy your answers into the boxes. Give your answers as decimals where appropriate. One has been done for you.

**1** 30% of 70

$$10\% \text{ of } 70 = 70 \div 10 = 7$$

$$30\% = 3 \times 10\% = 3 \times 7 = 21$$

**2** 50% of 18

*50% is the same as a half, so you can just do  $18 \div 2$ .*

**3** 10% of 160

**4** 10% of 32

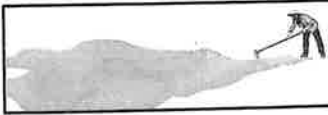
*You should get a decimal as your answer here.*

**5** 70% of 120

**6** 40% of 35

**7** 80% of 22

**8** 90% of 9



# Percentages

Have a go at these. Do your working in the spaces. One has been done for you.

**9** 45% of 300

$$1\% \text{ of } 300 = 300 \div 100 = 3$$

$$45\% = 45 \times 1\% = 45 \times 3 = 135$$

135

**13** 15% of 40

**10** 25% of 80

**14** 35% of 250

**11** 8% of 90

**15** 12% of 150

**12** 33% of 900

**16** 41% of 250

Calcugators love to sink their teeth into a good percentage question. How did you find them?





# Decimals, Fractions and Percentages



## Mental Maths Warm Up

Answer these as quickly as you can, saying your answer out loud or in your head...

- Write  $\frac{43}{100}$  as a decimal and a percentage.
- Write 0.5 as a percentage and a fraction.
- Tina and Rob are reading the same book in class. Tina has read 45% and Rob has read  $\frac{4}{5}$ . Who has read more of the book?

Answers: 1) 0.43 and 43%  
2) 50% and  $\frac{1}{2}$   
3) Rob

Now try these. Put your answers in the boxes. Give fractions in their simplest form.

- 1 Write 14% as a decimal.

- 2 Write 0.8 as a fraction.

- 3 Write 25% as a fraction.

- 4 Write 0.501 as a percentage.

- 5 Write  $\frac{7}{20}$  as a percentage.

- 6 Write  $\frac{13}{25}$  as a decimal.

Calculators can switch between decimals, fractions and percentages in a flash. How about you?

