



Percentages as fractions of 100

Write these fractions as percentages.

$\frac{7}{10} = \square$

$\frac{1}{5} = \square$

Write this percentage as a fraction.

$65\% = \square$

Write these fractions as percentages.

$\frac{2}{5} = \square$

$\frac{3}{10} = \square$

$\frac{1}{2} = \square$

$\frac{9}{10} = \square$

$\frac{3}{5} = \square$

$\frac{4}{5} = \square$

$\frac{1}{10} = \square$

$\frac{1}{4} = \square$

$\frac{3}{4} = \square$

Now try these.

$\frac{3}{100} = \square$

$\frac{7}{100} = \square$

$\frac{9}{100} = \square$

$\frac{23}{100} = \square$

$\frac{47}{100} = \square$

$\frac{93}{100} = \square$

Change these percentages to fractions. Remember that you may need to simplify.

$20\% = \square$

$45\% = \square$

$55\% = \square$

$12\% = \square$

$35\% = \square$

$60\% = \square$

Work out the answer to each calculation.

Cyril ate $\frac{2}{5}$ of a box of chocolates.
What percentage did he have left?



Tasmin put a 10% deposit on a dress in the sale. What fraction of the price did she still have to pay?



Working out percentages



Find 50% of these numbers.

$12 \square$

$42 \square$

$22 \square$

Find 25% of these amounts.

$£8 \square$

$72 \text{ km} \square$

$24 \text{ g} \square$

Find 50% of these numbers.

$68 \square$

$46 \square$

$18 \square$

$36 \square$

$100 \square$

$80 \square$

Find 25% of these numbers.

$12 \square$

$48 \square$

$36 \square$

$20 \square$

$4 \square$

$40 \square$

Find 75% of these amounts.

$£28.00 \square$

$12 \text{ cm} \square$

$100 \text{ l} \square$

$44 \text{ km} \square$

$£60.00 \square$

$16 \text{ m} \square$

Find 10% of these amounts.

$£200.00 \square$

$70 \text{ m} \square$

$30 \text{ cm} \square$

$24 \text{ l} \square$

$£37.00 \square$

$48 \text{ g} \square$

$62 \text{ km} \square$

$27 \text{ cm} \square$

$36 \text{ l} \square$

Write the answer in the box.

25% of a number is 12. What is the number?

10% of a number is 14. What is the number?

Mark spent 25% of his money. If he still has £60, how much did he spend?



Suitable for 9–10 years | Check the last page of this pack for the correct answers

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Content from: *Maths Made Easy Ages 9-10 Key Stage 2 Advanced*

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Answers:

Percentages as fractions of 100 ★

Write these fractions as percentages.

$\frac{7}{10} = 70\%$ $\frac{1}{5} = 20\%$

Write this percentage as a fraction.

$65\% = \frac{13}{20} = \frac{13}{20}$

Write these fractions as percentages.

$\frac{2}{5} = 40\%$ $\frac{3}{10} = 30\%$ $\frac{1}{2} = 50\%$
 $\frac{9}{10} = 90\%$ $\frac{3}{5} = 60\%$ $\frac{4}{5} = 80\%$
 $\frac{1}{10} = 10\%$ $\frac{1}{4} = 25\%$ $\frac{3}{4} = 75\%$

Now try these.

$\frac{3}{100} = 3\%$ $\frac{7}{100} = 7\%$ $\frac{9}{100} = 9\%$
 $\frac{23}{100} = 23\%$ $\frac{47}{100} = 47\%$ $\frac{93}{100} = 93\%$


Change these percentages to fractions. Remember that you may need to simplify.

$20\% = \frac{20}{100} = \frac{1}{5}$ $45\% = \frac{90}{200} = \frac{9}{20}$ $55\% = \frac{110}{200} = \frac{11}{20}$
 $12\% = \frac{30}{250} = \frac{3}{25}$ $35\% = \frac{70}{200} = \frac{7}{20}$ $60\% = \frac{60}{100} = \frac{3}{5}$

Work out the answer to each calculation.

Cyril ate $\frac{2}{5}$ of a box of chocolates. What percentage did he have left?


60%



$1 - \frac{2}{5} = \frac{3}{5}$
 $\frac{3}{5} \times 100 = 60$

Tasmin put a 10% deposit on a dress in the sale. What fraction of the price did she still have to pay?

$\frac{9}{10}$



$100 - 10 = 90$
 $\frac{90}{100} = \frac{9}{10}$

Children may need help to see that if $\frac{1}{10}$ is the same as 10%, then $\frac{1}{5}$ is equal to 20% because it is $\frac{2}{10}$. You may have to remind them that 1% is equal to $\frac{1}{100}$. Any number divided by 100 will be the same as the percentage of that number.

Working out percentages ★

Find 50% of these numbers.

12 42 22

Find 25% of these amounts.

£8 72 km 24 g

Find 50% of these numbers.

68 46 18
 36 100 80

Find 25% of these numbers.

12 48 36
 20 4 40

Find 75% of these amounts.

£28.00 12 cm 100 l
 44 km £60.00 16 m

Find 10% of these amounts.

£200.00 70 m 30 cm
 24 l £37.00 48 g
 62 km 27 cm 36 l

Write the answer in the box.

25% of a number is 12. What is the number?

10% of a number is 14. What is the number?

Mark spent 25% of his money. If he still has £60, how much did he spend?

Children should be aware that 50% is equal to $\frac{1}{2}$; 25% is equal to $\frac{1}{4}$; 75% is equal to $\frac{3}{4}$; and 10% is equal to $\frac{1}{10}$. They may convert units, e.g., 27 mm is 10% of 27 cm. This shows that they are comfortable with both conversion and percentage sums.