

Fractions, decimals and percentages (1)

M2 Option 1

Percentage means 'per hundred' or 'in every hundred'. Use this fact to change a percentage to a fraction or decimal. 25% means 25 out of every 100, or $\frac{25}{100}$ or 0.25. $\frac{25}{100}$ simplifies to $\frac{1}{4}$.

1. Draw lines to match the fractions, decimals and percentages that are the same.

1/10 20% 0.5 1/4

0.25 0.1 75% 50%

10% 2/10 3/10 0.3 25%

30% 0.2 1/2 3/4 0.75

2. When you have matched all six sets, rewrite each percentage as a fraction with a denominator of 100, and as a decimal, as in the example below.

$10\% = \frac{10}{100} = 0.1$

Fractions, decimals and percentages (2) M2 Option 2

To change a decimal to a percentage, multiply it by 100.
 So, 0.45 as a percentage is $0.45 \times 100\% = 45\%$
 To find 50% halve the number. To find 10%, divide by 10.

1. Draw lines to link the equivalent decimals, fractions and percentages. One trio has been joined up for you.

0.1	$\frac{2}{10}$	60%
0.2	$\frac{7}{10}$	80%
0.3	$\frac{8}{10}$	90%
0.4	$\frac{1}{10}$	70%
0.5	$\frac{6}{10}$	40%
0.6	$\frac{3}{10}$	50%
0.7	$\frac{9}{10}$	30%
0.8	$\frac{4}{10}$	10%
0.9	$\frac{5}{10}$	20%

2. Draw lines to link the matching amounts. One trio has been joined up for you.

$\frac{1}{2}$ of 30	6	75% of 16
$\frac{1}{4}$ of 80	12	25% of 80
$\frac{1}{5}$ of 35	3	40% of 45
$\frac{3}{4}$ of 16	20	20% of 35
$\frac{1}{10}$ of 60	15	10% of 60
$\frac{1}{8}$ of 9	18	$33\frac{1}{3}\%$ of 9
$\frac{2}{5}$ of 45	7	50% of 30

Acute, obtuse or right?

M2 Option 3

An angle is a measure of turn. There are 360° in one whole turn.

An acute angle is less than 90° .



An obtuse angle is more than 90° , but less than 180° .



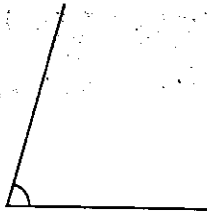
A right angle is exactly 90° .



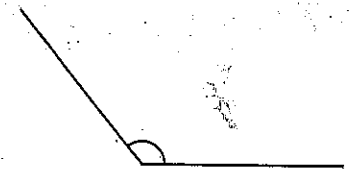
1. Label each of these angles either acute, obtuse or a right angle.



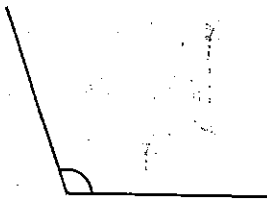
a. _____



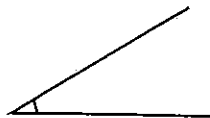
b. _____



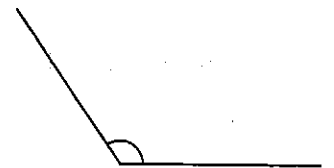
c. _____



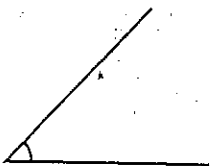
d. _____



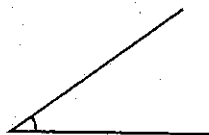
e. _____



f. _____



g. _____



h. _____



i. _____