

Fractions to percentages - Worksheet

Skill

Group A - Fractions to percentages

Write these fractions as percentages:

1) $\frac{1}{2}$

2) $\frac{1}{4}$

3) $\frac{3}{4}$

4) $\frac{1}{10}$

5) $\frac{3}{10}$

6) $\frac{7}{10}$

7) $\frac{1}{5}$

8) $\frac{2}{5}$

9) $\frac{4}{5}$

10) $\frac{13}{20}$

11) $\frac{13}{25}$

12) $\frac{13}{50}$

Group B - Percentages

Write these percentages as fractions. Give the fractions in their simplest terms:

1) 10%

2) 70%

3) 80%

4) 25%

5) 55%

6) 85%

7) 24%

8) 64%

9) 94%

10) 13%

11) 33%

12) 73%

Group C - Mixed

Write the equivalent percentage/fraction. Give the percentages correct to 1 decimal place.

Give the fractions in their simplest term:

1) $\frac{1}{3}$

2) $\frac{2}{3}$

3) $\frac{1}{6}$

4) $\frac{5}{6}$

5) $\frac{1}{9}$

6) $\frac{5}{9}$

7) 20%

8) 28%

9) 35%

10) 37%

11) 65%

12) 67%

Fractions to percentages - Worksheet

Applied

- 1)
 - (a) Alexis scored $\frac{17}{20}$ in her history test. Convert this mark to a percentage.
 - (b) Sven scored $\frac{21}{25}$ in her history test. Convert this mark to a percentage.

- 2)
 - (a) Write 62.4% as a fraction. Give the fraction in its simplest terms.
 - (b) Write 45.8% as a fraction. Give the fraction in its simplest terms.

- 3)
 - (a) Write this mixed number as a percentage: $1\frac{1}{5}$
 - (b) Write this improper fraction as a percentage: $\frac{27}{20}$

- 4)
 - (a) Daniel scored 37 out of 48 in a maths test.

Convert this mark to a percentage.
Give your answer correct to 1 decimal place.
 - (b) Fiona scored 74 out of 95 in an English test.

Convert this mark to a percentage.
Give your answer correct to 1 decimal place.

Fractions to percentages - Exam Questions

- 1) (a) Write $\frac{1}{4}$ as a percentage

..... %
(1)

- (b) Write $\frac{3}{8}$ as a percentage

..... %
(1)

- (c) Write $\frac{19}{25}$ as a percentage

..... %
(1)
(3 marks)

-
- 2) Circle the fraction equivalent to 0.1%

$$\frac{1}{10}$$

$$\frac{1}{100}$$

$$\frac{1}{1000}$$

$$\frac{1}{10000}$$

(1 mark)

-
- 3) (a) Write 32% as a fraction in its simplest terms

.....
(2)

- (b) Write 65% as a fraction in its simplest terms

.....
(2)

- (c) Write 17.4% as a fraction in its simplest terms

.....
(2)
(6 marks)

Fractions to percentages - Exam Questions

- 4) Henry scored 36 out of 58 in his Biology test.

Work out his score as a percentage.

Give your answer correct to 1 decimal place.

.....%

(2 marks)

Fractions to percentages - Answers

	Question	Answer
	Skill Questions	
Group A	Write these fractions as percentages:	
	1) $\frac{1}{2}$	1) 50%
	2) $\frac{1}{4}$	2) 25%
	3) $\frac{3}{4}$	3) 75%
	4) $\frac{1}{10}$	4) 10%
	5) $\frac{3}{10}$	5) 30%
	6) $\frac{7}{10}$	6) 70%
	7) $\frac{1}{5}$	7) 20%
	8) $\frac{2}{5}$	8) 40%
	9) $\frac{4}{5}$	9) 80%
	10) $\frac{13}{20}$	10) 65%
	11) $\frac{13}{25}$	11) 52%
	12) $\frac{13}{50}$	12) 26%

Fractions to percentages - Answers

Group B	Write these percentages as fractions. Give the fractions in their simplest term:	
	1) 10%	1) $\frac{1}{10}$
	2) 70%	2) $\frac{7}{10}$
	3) 80%	3) $\frac{4}{5}$
	4) 25%	4) $\frac{1}{4}$
	5) 55%	5) $\frac{11}{20}$
	6) 85%	6) $\frac{17}{20}$
	7) 24%	7) $\frac{6}{25}$
	8) 64%	8) $\frac{16}{25}$
	9) 94%	9) $\frac{47}{50}$
	10) 13%	10) $\frac{13}{100}$
	11) 33%	11) $\frac{33}{100}$
	12) 73%	12) $\frac{73}{100}$

Fractions to percentages - Answers

Group C	Write the equivalent percentage / fraction. Give the percentages correct to 1 decimal place. Give the fractions in their simplest term:	
	1) $\frac{1}{3}$	1) 33.3% (to 1dp)
	2) $\frac{2}{3}$	2) 66.7% (to 1dp)
	3) $\frac{1}{6}$	3) 16.7% (to 1dp)
	4) $\frac{5}{6}$	4) 83.3% (to 1dp)
	5) $\frac{1}{9}$	5) 11.1% (to 1dp)
	6) $\frac{5}{9}$	6) 55.6% (to 1dp)
	7) 20%	7) $\frac{1}{5}$
	8) 28%	8) $\frac{7}{25}$
	9) 35%	9) $\frac{7}{20}$
	10) 37%	10) $\frac{37}{100}$
	11) 65%	11) $\frac{13}{20}$
	12) 67%	12) $\frac{67}{100}$

Fractions to percentages - Answers

	Question	Answer
	Applied Questions	
1)	<p>a) Alexis scored $\frac{17}{20}$ in her history test. Convert this mark to a percentage.</p> <p>b) Sven scored $\frac{21}{25}$ in her history test. Convert this mark to a percentage.</p>	<p>a) 85%</p> <p>b) 84%</p>
2)	<p>a) Write 62.4% as a fraction. Give the fraction in its simplest terms.</p> <p>b) Write 45.8% as a fraction. Give the fraction in its simplest terms.</p>	<p>a) $\frac{78}{125}$</p> <p>b) $\frac{229}{500}$</p>
3)	<p>a) Write this mixed number as a percentage: $1\frac{1}{5}$</p> <p>b) Write this improper fraction as a percentage: $\frac{27}{20}$</p>	<p>a) 120%</p> <p>b) 135%</p>
4)	<p>a) Daniel scored 37 out of 48 in a maths test. Convert this mark to a percentage. Give your answer correct to 1 decimal place.</p> <p>b) Fiona scored 74 out of 95 in an English test. Convert this mark to a percentage. Give your answer correct to 1 decimal place.</p>	<p>a) 77.1%</p> <p>b) 77.9%</p>

Fractions to percentages - Mark Scheme

	Question	Answer	
	Exam Questions		
1) (a)	Write $\frac{1}{4}$ as a percentage.	(a) 25%	(1)
(b)	Write $\frac{3}{8}$ as a percentage.	(b) 37.5%	(1)
(c)	Write $\frac{19}{25}$ as a percentage.	(c) 76%	(1)
2)	Circle the fraction equivalent to 0.1% $\frac{1}{10}$ $\frac{1}{100}$ $\frac{1}{1000}$ $\frac{1}{10000}$	$\frac{1}{1000}$	(1)
3) (a)	Write 32% as a fraction in its simplest term	(a) $\frac{32}{100}$ $\frac{8}{25}$	(1) (1)
(b)	Write 65% as a fraction in its simplest term	(b) $\frac{65}{100}$ $\frac{13}{20}$	(1) (1)
(c)	Write 17.4% as a fraction in its simplest term	(c) $\frac{17.4}{100}$ $\frac{87}{500}$	(1) (1)
4)	Henry scored 36 out of 58 in his Biology test. Work out his score as a percentage. Give your answer correct to 1 decimal place.	$36 \div 58 \times 100$ 62.1%	(1) (1)

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