

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.

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% | A | B | C | D | |
| | | $\frac{1}{10}$ | $\frac{1}{100}$ | $\frac{1}{1000}$ | $\frac{1}{10000}$ | (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)**

- 4) Henry scored 36 out of 58 in his%
Biology test. (2 marks)

Give your answer correct to 1 decimal place.

Fractions to percentages - Answers

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

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)	(1)
(b)	Write $\frac{3}{8}$ as a percentage	(b) 37.5% (1)	(1)
(c)	Write $\frac{19}{25}$ as a percentage	(c) 76% (1)	(1)
2)	Circle the fraction equivalent to 0.1% <div style="display: flex; justify-content: space-around; margin-top: 5px;"> A $\frac{1}{10}$ B $\frac{1}{100}$ C $\frac{1}{1000}$ D $\frac{1}{10000}$ </div>	C - $\frac{1}{1000}$ (1)	(1)
3) (a)	Write 32% as a fraction in its simplest term	(a) $\frac{32}{100}$ (1) $\frac{8}{25}$ (1)	(2)
(b)	Write 65% as a fraction in its simplest term	(b) $\frac{65}{100}$ (1) $\frac{13}{20}$ (1)	(2)
(c)	Write 17.4% as a fraction in its simplest term	(c) $\frac{17.4}{100}$ (1) $\frac{87}{500}$ (1)	(2)
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.	$36 \div 58 \times 100$ (1) 62.1% (1)	(2)

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