Examples

Workout

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Question 1: Write these decimals as percentages

(a) 0.31   (b) 0.16   (c) 0.22   (d) 0.06   (e) 0.02   (f) 0.8

(g) 0.4   (h) 0.185   (i) 0.204   (j) 0.092   (k) 1.24   (l) 2.8

Question 2: Write these percentages as decimals

(a) 18%   (b) 27%   (c) 60%   (d) 3%   (e) 55%   (f) 80%

(g) 1%   (h) 9.2%   (i) 41.5%   (j) 0.8%   (k) 180%   (l) 315%

Question 3: Write these decimals as fractions

(a) 0.7   (b) 0.4   (c) 0.15   (d) 0.88   (e) 0.79   (f) 0.04

(g) 0.404   (h) 0.125   (i) 0.625   (j) 0.123   (k) 1.6   (l) 2.25

Question 4: Write these fractions as decimals

(a) $\dfrac{3}{10}$ (b) $\dfrac{3}{5}$ (c) $\dfrac{81}{100}$ (d) $\dfrac{9}{20}$ (e) $\dfrac{1}{8}$ (f) $\dfrac{19}{40}$

(g) $\dfrac{7}{8}$ (h) $\dfrac{13}{20}$ (i) $\dfrac{33}{50}$ (j) $\dfrac{19}{10}$ (k) $\dfrac{83}{20}$ (l) $\dfrac{123}{40}$

Question 5: Write these percentages as fractions

(a) 70%   (b) 60%   (c) 95%   (d) 24%   (e) 79%   (f) 82%

(g) 37.5%   (h) 1.8%   (i) 11.5%   (j) 0.06%   (k) 160%   (l) 285%

Question 6: Write these fractions as percentages

(a) $\dfrac{9}{10}$ (b) $\dfrac{1}{5}$ (c) $\dfrac{99}{100}$ (d) $\dfrac{3}{25}$ (e) $\dfrac{17}{20}$ (f) $\dfrac{7}{8}$

(g) $\dfrac{7}{40}$ (h) $\dfrac{3}{8}$ (i) $\dfrac{43}{50}$ (j) $\dfrac{123}{200}$ (k) $\dfrac{5}{9}$ (l) $\dfrac{53}{20}$

Question 6: Which is larger? Show your working out

(a) 78% or 0.8

(b) $\dfrac{1}{5}$ or 0.23

(c) $\dfrac{3}{4}$ or 0.73

(d) $\dfrac{17}{20}$ or 0.87

(e) $\dfrac{5}{8}$ or 0.61

(f) 109% or 1.1

(g) 43% or $\dfrac{17}{40}$

(h) $\dfrac{13}{10}$ or 128%

(i) $\dfrac{5}{2}$ or 2.8

Question 7: Arrange the following in order, from smallest to largest.

(a) $\dfrac{1}{4}$ 0.19   0.3   26% $\dfrac{1}{5}$

(b) 0.9 $\dfrac{17}{20}$ $\dfrac{4}{5}$ 88%   0.79

(c) 11%   0.2   13% $\dfrac{3}{20}$ $\dfrac{1}{8}$

(d) $\dfrac{2}{3}$ 65%   0.68 $\dfrac{7}{10}$ $\dfrac{5}{8}$

(e) 101% $\dfrac{11}{10}$ 1.2 $\dfrac{19}{20}$ 0.9

(f) 1.5 $\dfrac{5}{3}$ 82% $\dfrac{7}{4}$ $\dfrac{37}{40}$

Question 8: Copy and complete the tables below

(a)

Fraction	Decimal	Percentage
		10%
$\frac{4}{5}$		
	0.17	
$\frac{3}{20}$		

(b)

Fraction	Decimal	Percentage
	0.11	
$\frac{9}{20}$		
		68%
$\frac{3}{8}$		

(c)

Fraction	Decimal	Percentage
$\frac{2}{3}$		
	0.003	
		10.5%
$\frac{9}{80}$		

(d)

Fraction	Decimal	Percentage
	1.4	
$\frac{19}{10}$		
		265%
$\frac{11}{4}$		

Apply

Question 1: $\frac{3}{5}$ of a fruit punch is orange juice.

What percentage of the fruit punch is orange juice?

Question 2: 18% of a class wear glasses.
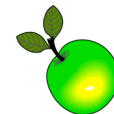What fraction of the class wear glasses?

Question 3: Benny says that 0.2 is smaller than 19%.
Is he correct? Explain your answer.

Question 4: Mike got 58% of questions correct on a test.
What fraction of questions did he get correct?

Question 5: A school has three year groups: year 7, year 8 and year 9.
30% of the students are in year 7
36% of the students are in year 8
What fraction of the students at the school are in year 9?

Question 6: In a crate, there are 40 apples.
3 of the apples are bad.
What percentage of apples in the crate are good?

Question 7: James sat an English quiz.
He scored 7 out of 8.
What percentage did he get right?

Question 8: Randalstown Rugby Club play 20 matches and win 17 of the matches.
What percentage of the matches did Randalstown win?

Question 9: Ricky has sat his summer exams.
His scores are below.

(a) Change his scores into percentages.
Give each answer to 1 decimal place.

(b) List Ricky's top 3 subjects

Maths: 17 out of 22
English: 19 out of 30
Science: 51 out of 60
French: 11 out of 12
German: 10 out of 14
Music: 19 out of 42
Geography: 19 out of 28
History: 30 out of 38
Welsh: 65 out of 70

Answers

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