Fractions, Decimals and Percentages Exam Practice



Q1. Convert the following to percentages:

- a) $\frac{2}{5}$

- m) 40% b) 63%

Answer: 40%, 13%

Q2. Convert the following to decimals:

- b) $2\frac{3}{10}$
- 4 75%.
- 4) 2.3

Answer: 75.1., 7.3

(2 marks)



- $\mathbf{Q}3.$ Convert the following to fractions, simplifying your answers:
 - a) 0.04
- b) 32%

a)
$$\frac{4}{100}$$
 $\frac{32}{100}$ $\frac{32}{100}$ $\frac{8}{20}$

Q4. Put the following in order, starting with the smallest. Credit will be given for any appropriate working out.

$$\frac{3}{4} \quad 1\% \quad \frac{2}{3} \quad 0.07 \quad \frac{5}{8}$$

$$\rightarrow \quad 0.75, \quad 0.01, \quad 0.07, \quad 0.02.$$

$$\Rightarrow \quad 1\%, \quad 0.07, \quad 5\%, \quad \frac{3}{4}, \quad \frac{3}{4}$$

Q5. Write $\frac{24}{60}$ as:

- (i) a percentage (ii) a decimal

(i) 4 10

(i)
$$\frac{24}{10} = \frac{4}{10}$$
 $= \frac{40}{100}$
 $= \frac{40}{100}$

- Q6. Write 0.0081 as:
 - (i) a percentage
- (ii) a fraction

Q7. Circle the two numbers between which $\frac{3}{8}$ lies:



$$\frac{3}{8} = 0.375$$

Q8. Put the following in order, starting with the <u>largest</u>. Credit will be given for any appropriate working out.

$$\frac{9}{12}$$
 85% 2.4 $\frac{18}{20}$ 0.65

Applied Mixed Practice Problems



Q9. Last year, Mark spent 35% of his savings, Tom spent $\frac{2}{5}$ of his savings, whilst David spent $\frac{1}{6}$ of his savings. Who had the least money left? You must explain your choice.

Answer:

(2 marks)



Q10. In a game, the aim is to choose 2 numbers from the list below so that the difference of the numbers is as large as possible. Which two numbers should a player choose?

$$\frac{1}{8}$$
 $\frac{1}{10}$ $\frac{10}{15}$ 0.55 $\frac{3}{5}$

Answer: 10 / 10 /

(2 marks)



Q11. Find the mistake in Emma's working out, and correct it:

$$\frac{5400}{7500} = \frac{54}{75}$$

$$= \frac{16}{25} = \frac{18}{25}$$

$$= \frac{64}{100} = \frac{72}{35}$$

$$= 64\% = 72\%$$

Q12. What number is half-way between 0.008 and 2%? You may give your answer as a percentage, decimal or fraction.

Answer: (2 marks)

GCSEMathsRevision.com



Q13. At an election, the table below show the proportion of people who voted for Party A, Party B and Party C. Work out the % of people who did not vote.

Party	Proportion
A	42%
В	$\frac{7}{20}$
С	0.15

$$=\frac{15\%}{35}=35\%$$

Answer:	8.		
		,	$\overline{}$