Fractions, Decimals and Percentages Exam Practice

Q1. Convert the following to percentages:

   a) $\frac{2}{5}$ b) $\frac{126}{200}$

(2 marks)

Q2. Convert the following to decimals:

   a) $\frac{3}{4}$ b) $2\frac{3}{10}$

(2 marks)

Q3. Convert the following to fractions, simplifying your answers:

   a) 0.04   b) 32%

(2 marks)

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

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

(2 marks)

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

   (i) a percentage   (ii) a decimal

(2 marks)

Q6. Write 0.0081 as:

   (i) a percentage   (ii) a fraction

(2 marks)

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

   0.1   0.2   0.3   0.4   0.5   0.6   0.7   0.8   0.9

(1 mark)

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

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

(2 marks)

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.

(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?

$$28\% \qquad \frac{1}{8} \qquad 10\% \qquad \frac{10}{15} \qquad 0.55 \qquad \frac{3}{5}$$

(2 marks)

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

$$\frac{5400}{7500} = \frac{54}{75}$$
$$= \frac{16}{25}$$
$$= \frac{64}{100}$$
$$= 64\%$$

(2 marks)

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

(2 marks)

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%
B	$\frac{7}{20}$
C	0.15

(3 marks)