

## Revision F2 (Number) [21]

1.

(a) Write 36 as the product of its prime factors.

(2)

(b) What is the least common multiple (LCM) of 36 and 45?

(2)

(Total 4 marks)

2.

Work out  $\frac{7}{8} - \frac{1}{3}$

(Total 2 marks)

3.

(a) Fill in the boxes to make these statements correct.

(i)  $\frac{1}{5} \times \square = 1$

(1)

(ii)  $\frac{3}{4} \times \frac{\square}{\square} = 1$

(1)

(b) Which of these fractions can be written as recurring decimals?

$\frac{1}{5}$     $\frac{1}{6}$     $\frac{5}{8}$     $\frac{2}{3}$

(2)

(c) Express  $\frac{2}{9}$  as a recurring decimal.

(1)

(Total 5 marks)

4.

(a) Express 108 as a product of its prime factors.

(2)

(b) Find the Highest Common Factor (HCF) of 108 and 72.

(2)

(Total 4 marks)

5. **Non-calculator**

Which of these fractions is closest to  $\frac{1}{4}$ ?      $\frac{2}{5}$     $\frac{3}{10}$     $\frac{7}{20}$     $\frac{13}{40}$

You **must** show your working.

(Total 3 marks)

6.

Prove that  $0.2\dot{1}\dot{6} = \frac{107}{495}$

(Total 3 marks)