

## Non-Calculator

**Q1.**

Write  $\frac{8}{11}$  as a recurring decimal.

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Answer \_\_\_\_\_

(Total 2 marks)

**Q2.**

(a)  $123 \times 456 = 56\,088$

Write down the value of  $12.3 \times 45.6$

(1)

Answer \_\_\_\_\_

(b)  $123 \times 456 = 56\,088$

Write down the value of  $56\,088 \div 1.23$

(1)

Answer \_\_\_\_\_

(c)  $123 \times 456 = 56\,088$

Work out the value of  $122 \times 456$

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Answer \_\_\_\_\_

(2)

(Total 4 marks)

**Q3.**

$346 \times 27 = 9342$

- (a) Work out
- $34.6 \times 2.7$

Circle your answer.

934.2

93.42

9.342

0.9342

(1)

- (b) Work out
- $\frac{9342}{270}$

Circle your answer.

3460

346

34.6

3.46

(1)

**(Total 2 marks)****Q4.**

- (a)
- $0.\dot{7} = \frac{7}{9}$

Use this fact to show that  $0.\dot{7} = \frac{7}{90}$ 


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(1)

- (b) Using part (a) or otherwise, convert
- $0.2\dot{7}$
- to a fraction.
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- Give your answer in its simplest form.

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Answer \_\_\_\_\_

(3)

**(Total 4 marks)**

**Q5.**

Convert  $0.1\dot{7}\dot{2}$  to a fraction in its lowest terms.

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Answer \_\_\_\_\_

**(Total 3 marks)**

**Q6.**

$\frac{1}{6}$ ,  $\frac{1}{7}$ ,  $\frac{1}{8}$  and  $\frac{1}{9}$  are four fractions.

How many of these fractions convert to a recurring decimal?

Circle your answer.

0                      1                      2                      3                      4

**(Total 1 mark)**

**Q7.**

(a) Put these in order starting with the smallest.

33.3       $\frac{1}{3}$       -0.3      3.03

Answer \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

**(2)**

(b) Jo thinks the difference between -0.3 and 33.3 is 33.

Is she correct?

Tick a box.

Yes

No

Show clearly how you decide.

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**(2)**

**(Total 4 marks)**

**Q8.**

- (a) Write  $\frac{7}{13}$  as a recurring decimal.

\_\_\_\_\_

Answer \_\_\_\_\_

(1)

- (b) Circle the fraction that is equivalent to  $0.\dot{4}1$

$$\frac{41}{99}$$

$$\frac{41}{100}$$

$$\frac{37}{99}$$

$$\frac{37}{90}$$

(1)

(Total 2 marks)

**Q9.**

One lap of a racing circuit is  $3\frac{3}{4}$  km

Work out the total distance for  $4\frac{1}{2}$  laps.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Answer \_\_\_\_\_ km

(Total 3 marks)

**Q10.**

When a number is multiplied by  $2\frac{1}{4}$  the answer is 3.

Work out the number.

Answer \_\_\_\_\_

(Total 4 marks)

## Calculator

**Q11.**

Which of these when converted to decimals are recurring decimals?  
Circle your answers.

$\frac{1}{3}$

 $\pi$ 

$\sqrt{3}$

$\frac{3}{16}$

$\frac{5}{7}$

(Total 2 marks)

**Q12.**

In a kettle, there are  $1\frac{3}{5}$  litres of water.

A cup holds  $\frac{1}{5}$  of a litre of water.

How many cups can be filled with the water in the kettle?

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Answer \_\_\_\_\_

(Total 2 marks)