Non-Calculator

Q1.

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

_____

_____

_____

_____

Answer _____

(Total 2 marks)

Q2.

(a) 123 × 456 = 56 088

Write down the value of 12.3 × 45.6

(1)

Answer _____

(b) 123 × 456 = 56 088

Write down the value of 56 088 ÷ 1.23

(1)

Answer _____

(c) 123 × 456 = 56 088

Work out the value of 122 × 456

_____

_____

_____

Answer _____

(2)

(Total 4 marks)

Q3.

346 × 27 = 9342

(a) Work out 34.6 × 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 $0.\dot{7} = \frac{7}{90}$

_____

_____

(1)

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

_____

_____

_____

_____

_____

_____

_____

Answer _____

(3)

(Total 4 marks)

Q5.

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

_____

_____

_____

_____

_____

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.

_____

(2)

(Total 4 marks)

Q8.

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

_____

Answer _____

(1)

(b) Circle the fraction that is equivalent to $0.4\dot{1}$

$\frac{41}{99}$ $\frac{41}{100}$ $\frac{37}{99}$ $\frac{37}{90}$

(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.

$\frac{1}{3}$ π $\sqrt{3}$ $\frac{3}{16}$ $\frac{5}{7}$

(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?

_____

_____

_____

Answer _____

(Total 2 marks)