

SECTION 1

Answer ALL questions.

All working MUST be clearly shown.

1. (a) Using a calculator, or otherwise, find the

(i) a) EXACT value of

$$\frac{7}{8} + \frac{1}{6} \div \frac{2}{9}$$

SOLUTION:

Required to find: The exact value of $\frac{7}{8} + \frac{1}{6} \div \frac{2}{9}$

Solution:

The correct way in which such a question should be written is

$$\frac{7}{8} + \frac{1}{6} \div \frac{2}{9} = \frac{7}{8} + \left(\frac{1}{6} \div \frac{2}{9} \right)$$

$$\text{First we work } \frac{1}{6} \div \frac{2}{9} = \frac{1}{6} \times \frac{9}{2} = \frac{9}{12} = \frac{3}{4}$$

$$\begin{aligned} \text{Hence, } \frac{7}{8} + \frac{1}{6} \div \frac{2}{9} &= \frac{7}{8} + \frac{3}{4} \\ &= \frac{7 + 2(3)}{8} \\ &= \frac{13}{8} \\ &= 1\frac{5}{8} \text{ (in exact form)} \end{aligned}$$

b) $\frac{8}{0.4^3}$

SOLUTION:

Required to find: The exact value of $\frac{8}{0.4^3}$

Solution:

$$\begin{aligned} \frac{8}{0.4^3} &= \frac{8}{0.4 \times 0.4 \times 0.4} \\ &= \frac{8}{0.064} \end{aligned}$$

Using the calculator, we get $= 125$ (in exact form)

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Yi-Tong Ma

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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