

1 (a) Write down

$$\begin{array}{r} 12 \\ 1 \overline{) 12} \\ 2 \\ \underline{3} \\ 4 \end{array}$$

(i) two factors of 12,

Answer(a)(i) 2, 3 [1]

(ii) the next prime number after 19,

Answer(a)(ii) 23 [1]

(iii) the cube root of 64, $\sqrt[3]{64} = 4$

Answer(a)(iii) 4 [1]

(iv) two million five hundred and seven in figures,

Answer(a)(iv) 2000507 [1]

(v) two multiples of 75,

Answer(a)(v) 75, 150 [1]

(vi) the value of π correct to 5 significant figures.

$$\pi = 3.141592 \dots$$

$$\approx 3.1416$$

Answer(a)(vi) 3.1416 [1]

(b) Write as a percentage.

(i) 1.63 $1.63 \times 100\% = 163\%$

Answer(b)(i) 163 % [1]

(ii) $\frac{3}{40}$ $\frac{3}{40} \times 100\% = 7.5\%$

Answer(b)(ii) 7.5 % [1]

(c) (i) Write 63 521.769 correct to 1 decimal place.

Answer(c)(i) 63521.8 [1]

(ii) Write 63 521.769 correct to the nearest hundred.

Answer(c)(ii) 63500 [1]

(d) (i) Change 234 mm into metres.

$$234 \text{ mm} \div 1000 = 0.234 \text{ m}$$

Answer(d)(i) 0.234 m [1]

(ii) Change 876 m² into square centimetres.

$$876 \text{ m}^2 \times 10000 = 8760000 \text{ cm}^2$$

Answer(d)(ii) 8760000 cm² [1]