2 Calculate $\sqrt{5.76} + 2.8^3$.

.... [1]

2 Work out $\sqrt{5} \times 6^2$.
Give your answer correct to 2 decimal places.

.... [2]

13 Calculate $\sqrt{42} + 3^{0.4}$.

.... [1]

2 Calculate $4^5 - 5^4$.

.... [1]

4 Calculate $\dfrac{1 - 0.7}{0.45 - 0.38}$, giving your answer correct to 4 significant figures.

.... [2]

4 Find the value of $\sqrt{68} \times \sqrt{153}$.

.... [1]

2 Work out the value of $\dfrac{m\,k^3}{\sqrt{3}}$ when $m = 4$ and $k = 7$.

.... [2]

8 Write 2^{-4} as a decimal.

.... [1]

10 Calculate.

(a) 2000×1.2^3

.... [1]

(b) $2\frac{1}{8} \times \frac{6}{17}$

.... [1]

(c) $\dfrac{4.5(\cos 30°)}{\sqrt{3}} - 2$

.... [1]

3 Calculate.
$$\sqrt{15} + \frac{4.8}{2.2}$$

.... [1]

2 Calculate $\sqrt[4]{0.0256}$.

.... [1]

4 Calculate $\dfrac{20.24 - \sqrt[3]{30}}{6.5}$.

Give your answer correct to 1 decimal place.

.... [2]

5 Calculate.

(a) $\sqrt[3]{343} - \sqrt{40.96}$

.... [1]

(b) $(192 + 4 \times 16)^{1.25}$

.... [1]

8 Calculate $\sqrt[4]{39\frac{1}{16}}$.

.... [1]

3 Calculate.

$$\frac{4.87-2.7}{-0.2+\sqrt[3]{0.729}}$$

.... [1]

2 Calculate.

$$\frac{4}{\sqrt{0.0025}}$$

.... [1]

9 2.1×10^{-1} $0.\dot{2}$ 22% $\sqrt{0.2}$ $\frac{24}{1000}$

Write these values in order of size, starting with the smallest.

.... < .... < .... < .... < .... [2]
*smallest*

5 Angelique rents a room for a party.
The cost of renting the room is $15.50 for the first hour and then $7.25 for each additional hour.
She pays $95.25 in total.

Work out the total number of hours she rents the room for.

.... hours [3]

3 Rangan buys 3.6 kg of potatoes and 2.8 kg of leeks.
The total cost is $13.72 .
Leeks cost $2.65 per kilogram.

Find the cost of 1 kg of potatoes.

$ .... [3]

5 Jenna buys 2.4 m of ribbon and 4.8 m of fabric.
The total cost is $33.48 .
Ribbon costs $0.85 per metre.

Find the cost of 1 m of fabric.

$ .... [3]

4 The table shows some information about Amir's shopping.

Fruit	Cost per kilogram	Number of kilograms Amir buys	Cost
Oranges	$2.35	3.2	$..................
Bananas	$..................	2.8	$..................
		Total	$13.54

Complete the table.

[3]