

Trial and improvement

Checking your understanding

- 1 Solve $x^2 - x + 5 = 13$. Give your answer to 1 decimal place.
You may find this table helpful

If $x =$	then $x^2 - x + 5$ equals	which is

$x =$

- 2 Solve $x^2 + 5x = 184.2$. Give your answer to 1 decimal place.
You may find this table helpful.

If $x =$	then $x^2 + (5 \times x)$ equals	which is

$x =$

Achieved?
😊😐😞

1
(2 marks)

2
(2 marks)

- 3 Solve $x^3 + x - 1.5 = 331$. Give your answer to 1 decimal place.
Draw a table that starts like this ...

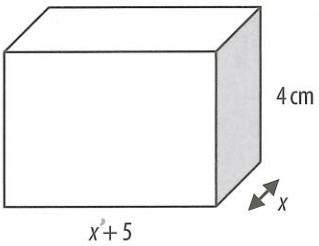
If $x =$	then $x^3 + x - 1.5$ equals	which is

$x =$

Using and applying

- 4 Karl knows that the volume of a cuboid is 123.84 cm^3 . He knows that the height is 4 cm, and that the length is 5 cm greater than the width.

Karl writes this equation to show the volume of the cuboid: $x(x + 5) \times 4 = 123.84$



Find the value of x .
You may find this table helpful.

If $x =$	then $x(x + 5) \times 4$ equals	which is

$x =$ cm

Achieved?
😊😐😞

3
(2 marks)

4
(2 marks)

/ 8
TOTAL MARKS