

# Using a Calculator: Powers, Roots and Brackets

ANSWERS 

1

Use your calculator to work out  $3.2^2 + 4.5$

the keys, in order

$3.2$   $x^2$   $+$   $4.5$   $=$

the display shows

14.74

Answer 14.74

2

Use your calculator to work out  $\sqrt{6.25} \times 4$

the keys, in order

$\sqrt{\phantom{x}}$   $6.25$   $\times$   $4$   $=$

the display shows

10

Answer 10

3

Use your calculator to work out  $2.5^3$

the keys, in order

$2.5$   $x^3$   $=$

the display shows

15.625

Answer 15.625

4

Use your calculator to work out  $\sqrt{12.25 + 3.1^2}$

the keys, in order

$\sqrt{\phantom{x}}$   $12.25$   $+$   $3.1$   $x^2$   $=$

the display shows

13.11

Answer 13.11

5

Use your calculator to work out  $(4.8 + 7.2) \div 0.6$

$($   $4.8$   $+$   $7.2$   $)$   $\div$   $0.6$   $=$

20

Answer 20

6

Use your calculator to work out  $18.9 \div (2.7 + 1.5)$

$18.9$   $\div$   $($   $2.7$   $+$   $1.5$   $)$   $=$

4.5

Answer 4.5

7

Tom wants  $18.9 \div (2.7 + 1.5)$ .  
He types  $18.9 \div 2.7 + 1.5$  and gets 8.5.  
What did he forget?  
Find the right answer.

*he left out the brackets*

Answer 4.5

8

A square has an area of  $52 \text{ cm}^2$ .  
Use your calculator to find the length  
of one side to 1 decimal place.

$\sqrt{52} = 7.2111...$

Answer 7.2 cm

# Using a Calculator: Powers, Roots and Brackets further practice

ANSWERS 

9

Use your calculator to work out

$$(3.4 + 1.8)^2$$

$$(3.4 + 1.8) \times 2$$

Answer 27.04

10

Use your calculator to work out

$$\frac{17.4 + 6.6}{4.3 - 1.1}$$

$$(17.4 + 6.6) \div (4.3 - 1.1)$$

Answer 7.5

11

Which is bigger,  $3.1^3$  or  $5.5^2$ ?  
Show how you know.

$$3.1^3 = 29.791, 5.5^2 = 30.25$$

Answer  $5.5^2$

12

A water tank is a cube with edges of  
1.4 m. Work out the volume of  
the tank.

$$1.4 \times 3$$

Answer  $2.744 \text{ m}^3$

13

Four parcels weigh 4.7 kg, 6.2 kg,  
5.9 kg and 3.6 kg. Work out their  
mean weight. Use one calculation on  
your calculator.

$$(4.7 + 6.2 + 5.9 + 3.6) \div 4$$

Answer 5.1 kg

14

Use your calculator to work out

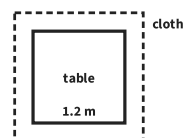
$$\sqrt{7.2^2 + 9.6^2}$$

$$\sqrt{(7.2 \times 2) + (9.6 \times 2)} = \sqrt{144}$$

Answer 12

15

A square tablecloth has an area of  
 $2.89 \text{ m}^2$ . It is put on a square table  
with sides of 1.2 m. It hangs over  
each edge of the table by the  
same amount. How far does it hang  
over each edge?



$$\sqrt{2.89} = 1.7, 1.7 - 1.2 = 0.5, 0.5 \div 2$$

Answer 0.25 m

16

Ben says  $(2.5 + 1.5)^2$  gives the same  
answer as  $2.5^2 + 1.5^2$ .  
Use your calculator to check.  
Is Ben right? Explain.

$$4^2 = 16, 6.25 + 2.25 = 8.5$$

Answer No, 16 and 8.5