

**Your Turn**

Work out the value for each of the following:

1.  $5 + 8 \times 2$

$$= 5 + 16$$

$$= 21$$

2.  $18 - 4 \div 2$

$$= 18 - 2$$

$$= 16$$

3.  $25 + 5 \times 6$

$$= 25 + 30$$

$$= 55$$

4.  $30 - 12 \div -3$

$$= 30 - (-4)$$

$$= 30 + 4$$

$$= 34$$

5.  $-6 \times 4 - 2 \times 3$

$$= -24 - 6$$

$$= -30$$

6.  $2 \times 11 + 7 \times -3$

$$= 22 + (-21)$$

$$= 22 - 21$$

$$= 1$$

7.  $(3 + 3) \div 2$

$$= 6 \div 2$$

$$= 3$$

8.  $(20 + 3) \div 2 + 3$

$$= 23 \div 2 + 3$$

$$= 11.5 + 3$$

$$= 14.5$$

9.  $(3 + 6) \times (-2)^2$

$$= 9 \times (-2)^2$$

$$= 9 \times 4$$

$$= 36$$

10.  $(20 - 4) \div 2^3$

$$= 16 \div 8$$

$$= 2$$

11.  $8 - 5 \times 3^3$

$$= 8 - 5 \times 27$$

$$= 8 - 135$$

$$= -127$$

12.  $4 + 5^2 \times -4$

$$= 4 + 25 \times -4$$

$$= 4 + (-100)$$

$$= 4 - 100$$

$$= -96$$

13.  $(20 - 5^2) \times 3$

$$= (20 - 25) \times 3$$

$$= -5 \times 3$$

$$= -15$$

14.  $5 \times (4 + 5)^2$

$$= 5 \times 9^2$$

$$= 5 \times 81$$

$$= 405$$

15.  $24 \div 2^2 \times \sqrt{16}$

$$= 24 \div 4 \times 4$$

$$= 6 \times 4$$

$$= 24$$



16. Explain why the answer to  $10 + 3 \times 5$  is 25 and not 65.

**By the rules of BIDMAS, the multiplication must be completed first, followed by the addition.**

$$10 + 3 \times 5$$

$$= 10 + 15$$

$$= 25$$

### Challenge

Place brackets into the following question to make it correct.

$$\sqrt{64} + 6 \div -2 \times -2 = 9.5$$

$$\sqrt{64} + 6 \div (-2 \times -2) = 9.5$$