1. Write down the value of each of the following.

**a** 23 **b** 32 **c** √64

**2** Write down all the prime numbers that are in this list.

2 3 4 9 13 19 21 27 39 41 49

**3** Find all the factors of 36.

**4** Write 30 as a product of prime factors.

**5** Simplify the following.

**a** 2*x* + 4*y* − 5*x* − 7*y* **b** −3*x* − 2*y* − 2*x* + 2*y*

**6** Work out the value of each of the following expressions

when *a* = 4, *b* = 2, *c* = -5, and *d* = 1.

**a** *a* + *b* + *c* + *d* **b** 5*a* − 4*c* **c** *cd*

**7** Expand and simplify.

2(3*x* + 5) + 2(4*x* + 2)

**8** Factorise.

**a** 6*x* – 9 **b** 5x2 + 30x

**9** Factorise.

**a** x2 + 9x + 20 **b** x2 + x - 12