



$$-2 \times 6$$

$$-12$$

$$-14 \div -7$$

$$2$$

Caroline says if you subtract two consecutive square numbers, the answer is always odd.

Is she correct?

yes

$$9 - 4 = 5$$

Sophie says if you square a number, the answer is always bigger.

Explain why she is wrong.

$$1^2 = 1$$

$$0^2 = 0$$

$$0.5^2 = 0.25$$

Calculate the nth term

15 17 19 21 23 25

$$2n + 13$$

Work out the 20th term in the sequence

$$2x + 13$$

$$53$$

Mrs Jenkins is organising a charity raffle.

She sells 500 tickets for £4 each.

The probability that someone wins a prize is 0.1

Each prize cost £12

The profit is donated to charity.

Work out how much money Mrs Jenkins donates to charity.

$$2000 - 600 = £1400$$