

18th December



$$\boxed{-8} - \boxed{-11} = \boxed{3}$$

$$\boxed{8} + \boxed{-8} = \boxed{0}$$

When I add consecutive triangular numbers, I get another kind of special number



John is adding consecutive triangular numbers.

What kind of number does John get?

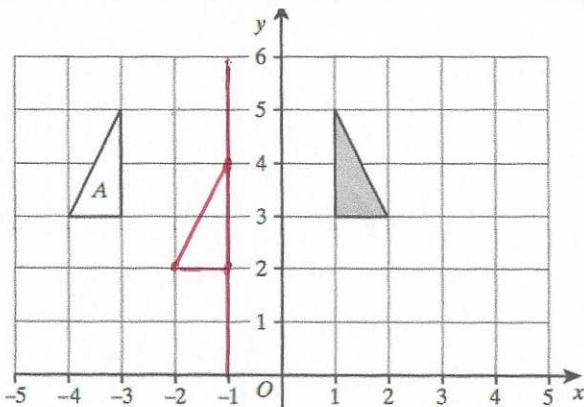
Triangular numbers: 1 3 6 10 15

$$1+3=4$$

$$3+6=9$$

$$6+10=16$$

Square numbers



Describe the single transformation that takes A to the shaded triangle.

Reflection in the line

$$x = -1$$

Translate A by translation vector.

$$\begin{pmatrix} 2 \\ -1 \end{pmatrix}$$

Candles normally cost £9 each.

Two websites have special offers

Corbettmaths Candles

Buy 3 get 1 free

buy 21 then 7 free

& buy 2 more
£207

Candles'R'us

20% off

£216

Laura wants to buy 30 candles.

Which website should Laura use?

$$23 \times 9 = £207$$

$$30 \times 9 = £270$$

$$10\% = 27$$

$$20\% = 54$$

$$270 - 54 = £216$$

Corbettmaths Candles