



Enlarge the triangle by scale factor -2 , using centre of enlargement $(0, 6)$

The first term of a geometric progression is 6 and the fourth term is 48.

$$6 \quad _ \quad _ \quad 48$$

Find the 2nd and 3rd terms.

The time taken, t , for passengers to be checked-in for a flight is inversely proportional to the square of the number of staff, s , working.

It takes 30 minutes passengers to be checked-in when 10 staff are working.

Find an equation connecting t and s .

Solve using the quadratic formula, to 1 decimal place.

$$3x^2 + 11x + 9 = 0$$

A fair six sided dice is rolled three times.

Find the probability of getting exactly two sixes.