Question 1

Factorise $x^2 + x - 72$
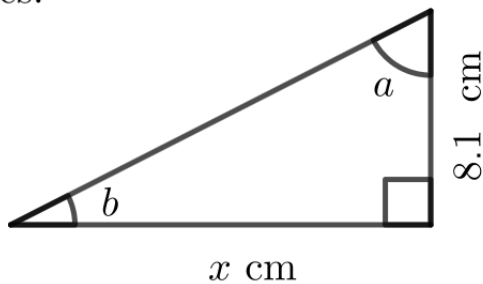
Question 2

n is an integer.

Write expressions in terms of n that could represent 4 consecutive even integers.

Question 3

The ratio $a : b = 7 : 3$.
Find x, correct to 3 significant figures.

Question 4

Tom rolls three fair six-sided dice. What is the probability that all three dice come up with a number greater than 3?

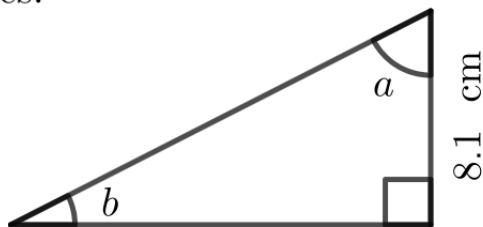Write your answer as a fraction in its simplest form.

BossMaths

Question 1

Factorise $x^2 + x - 72$

$(x + 9)(x - 8)$

Question 2

n is an integer.

Write expressions in terms of n that could represent 4 consecutive even integers.

e.g.

$2n, \quad 2n + 2, \quad 2n + 4, \quad 2n + 6$

Question 3

The ratio $a : b = 7 : 3$.
Find x, correct to 3 significant figures.

$x = 15.9$

Question 4

Tom rolls three fair six-sided dice. What is the probability that all three dice come up with a number greater than 3?

Write your answer as a fraction in its simplest form.

$\dfrac{1}{8}$