

Height (cm)	Frequency	Frequency Density
$110 < h \leq 120$	16	1.6
$120 < h \leq 140$	48	2.4
$140 < h \leq 180$	60	1.5
$180 < h \leq 200$	46	2.3

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3a + × b

5a

C

Write a formula for the perimeter.

p = 7a + 3b

с d

3, 9, 15, 21, ... a) Find the next two terms of the sequence. 27, 33 b)What is the nth term rule of the sequence? 6n - 3c) Calculate the 15<sup>th</sup> term.  $6 \times 15 - 3$ =90 - 3 = 87

I invest £3500 into a bank account for three years. I get 15% interest on the first year and then 18% on the last two years. How much money will I have after 3 years?

 $3500 \times 1.15 \times (1.18)^2$ = £5604, 41

Rationalise the denominator

$$\frac{6\sqrt{3}}{\sqrt{5}} \times \frac{\sqrt{5}}{\sqrt{5}} = \frac{6\sqrt{15}}{\sqrt{25}} = \frac{6\sqrt{15}}{5}$$

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Answers 12

What is the reciprocal of 6?

There are four balls in a bag, yellow, red, black and blue. What is the probability of a yellow?

Colour Ball	Probability
Yellow	$\frac{1}{6} = \frac{4}{24}$
Red	$\frac{5}{12} = \frac{10}{24}$
Black	$\frac{3}{8} = \frac{6}{24}$
Blue	$\frac{1}{6} = \frac{4}{24}$

Find a solution for x to 1 decimal place when  $x^2 + 4x = 25$ 

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x val	ие	$x^2 + 4x$	Big/Small
3		21	Small
4		32	Big
3.5	5	26.25	Big
3.4	1	25.16	Big
3.3	3	24.09	Small
3.3	5	24.6225	Small

x = 3.4 (1dp)

C

Write the equation of a line perpendicular to y = 3x + 5, which passes through the point (0,-2).

$$y = -\frac{1}{3}x - 2$$

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