

Here is a square based pyramid

How many faces does it have?

5

How many edges does it have?

8

How many vertices does it have? 5

1
 1 + 3
 1 + 3 + 5
 1 + 3 + 5 + 7

Find the totals for the first 4 lines

Answer 1 . 4 . 9 . 16

Write down the special name given to these totals

square numbers

A four-sided spinner has the numbers 1, 3, 5 and 7 on it.
 A dice has the numbers 2, 4, 6, 8, 10 and 12 written on it.

In a game they are spun/rolled and their scores are added together.

Complete this table to show all the outcomes

+	2	4	6	8	10	12
1	3	5	7	9	11	13
3	5	7	9	11	13	15
5	7	9	11	13	15	17
7	9	11	13	15	17	19

$$\frac{18}{24} = \frac{3}{4}$$

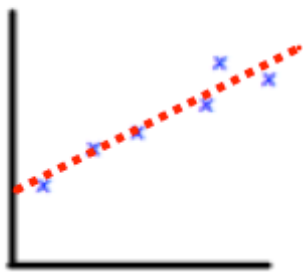
What is the probability that the sum of the two scores is less than 14?

$$\frac{3}{4}$$

April 27th

5-a-day

Foundation



Draw the line of best fit on this scatter graph

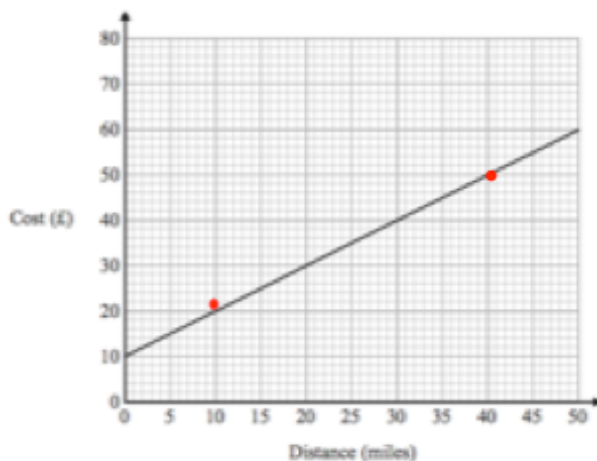
A dice is rolled 300 times.

How many 3's would you expect?

$$\frac{1}{6} \text{ of } 300 = 50$$

Complete this table for $x + y = 5$

x	-3	-2	-1	0	1	2	3
y	8	7	6	5	4	3	2



How much would it cost to deliver the furniture 10 miles?

£20

This graph shows the cost of delivering furniture

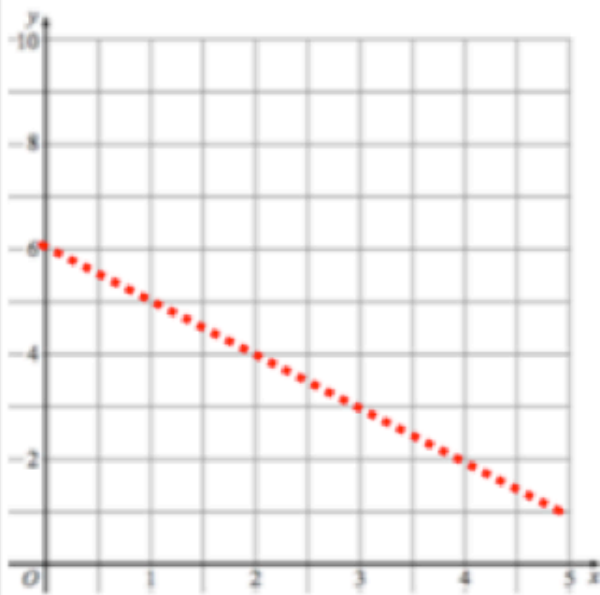
The cost is £50, how far was the furniture delivered?

40 miles

April 27

5-a-day

Higher



Draw $y = 6 - x$

What is the gradient of the line?

-1

A line is parallel to the line above and passes through (0, 9). What is its equation?

$$y = -x + 9$$

A line is perpendicular to the line above. It passes through (1, 8). What is its equation?

$$y = x + 7$$

Solve

$$2y^2 - y = 15$$

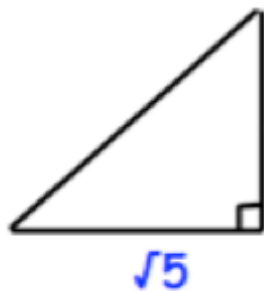
$$2y^2 - y - 15 = 0$$

$$(2y + 5)(y - 3) = 0$$

$$2y + 5 = 0$$

$$y = -2.5$$

or $y = 3$



$$(\sqrt{7})^2 + (\sqrt{5})^2 = x^2$$

$$7 + 5 = x^2$$

$$x = \sqrt{12} \quad \text{or} \quad \boxed{2\sqrt{3}}$$