

May 28th	5-a-day	Numeracy
3847 + 427	$\begin{array}{r} 3847 \\ + 427 \\ \hline 4274 \end{array}$	
Give an event where you think the probability is likely.	A day being sunny in July Rolling a number less than 6	
Eight people book a holiday, costing \$284 each. How much is the total cost?	\$2272	
<p>One angle in an isosceles triangle is <math>40^\circ</math>.</p> <p>Write down the sizes of the other two angles.</p>	<p>Write two different possible answers.</p>	$40^\circ, 100^\circ$ $70^\circ, 70^\circ$
<p>The mean number of goals scored in a season by seven players were:</p> <p>48 32 0 62 11 21 43 = 217</p> <p>a) Calculate the mean</p> $217 \div 7 = 31$	<p>b) An eighth player brings the mean goals scored up to 33. How many goals did he score?</p> $33 \times 8 = 264$ $264 - 217 = 47$	

May 28th

5-a-day

Foundation

Expand  $6x(2x + 5)$ 

$$12x^2 + 30x$$

Factorise  $8x + 12$ 

$$4(2x + 3)$$

Round 6125 correct to 1 significant figure

6000

Round 0.374 correct to 1 significant figure

0.4

Calculate an estimate for:

$$\frac{31 \times 4.92}{0.21} \approx \frac{30 \times 5}{0.2}$$

$$\frac{150}{0.2} = \frac{1500}{2} = 750$$

Do you agree that pasta is better than pizza?

Give a criticism of this question.

Write a question to find out how often someone eats pizza. Include response boxes

How many times, each month, do you eat pizza?

Leading  0-1  2-3  4-5  6+

Expression	Length	Area	Volume	None of these
$x + y + z$	✓			
$xyz$			✓	
$xy + yz + xz$		✓		

The area of a rectangle is  $100\text{cm}^2$

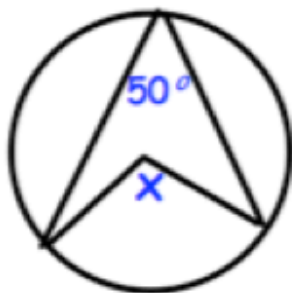
The width of the rectangle is  $x$  cm  
The length is 5cm longer.

Write an equation and solve it using trial and improvement, to one decimal place.



Area =  $x(x+5) = 100$   
 $x^2 + 5x = 100$

$x$	$x^2 + 5x$	Correct
7	84	↓
8	104	↑
7.9	101.91	↑
7.8	99.84	↓
7.85	100.825	↑
7.8	7.85 7.9	7.8



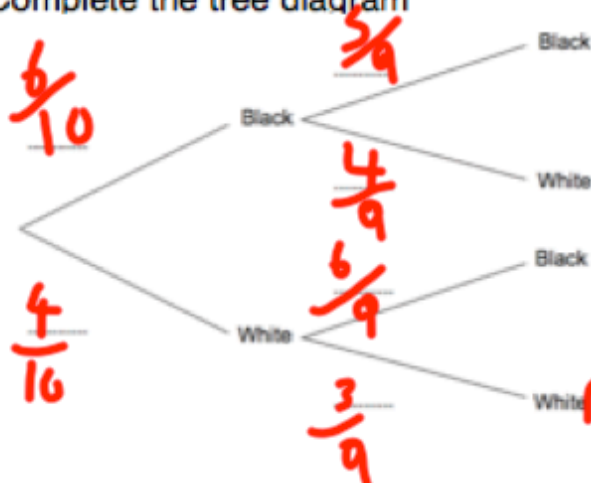
Find  $x$

$x = 100$

There are 10 socks in a bag.  
6 black and 4 white.

Two socks are picked at random.

Complete the tree diagram



What is the probability of two white socks?

$\frac{4}{10} \times \frac{3}{9} = \frac{12}{90} = \frac{2}{15}$

What is the probability of two socks of the same colour?

BB :  $\frac{6}{10} \times \frac{5}{9} = \frac{1}{3}$   
 $P(WW \text{ or } BB) = \frac{2}{15} + \frac{1}{3} = \frac{7}{15}$