March 2nd	5-a-day	Numeracy

Work out

11 + 1.1 + 0.11

11·00
1.10
0.11
12.21

Find the value of

(345 x 8) + (345 x 2)

345x10

3450

If x = 4 and y = 3

Find the value of

$x^2 + 2y + 5$

$4^2 + 2 \times 3 + 5$

$16 + 6 + 5 = 27$

PRESENT	PREVIOUS
83 981	82 869

How many units were used?

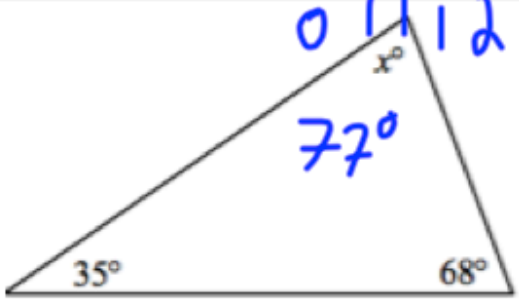
1112

83971
- 82869
01112

If each unit cost 8p, find the total cost.

1112
× 8
8896

£88.96



Find x

68
+135
103

7
180
-103
77°

March 2nd	5-a-day	Foundation

Solve $5w - 3 = 67$

$+3 \quad +3$

$5w = 70$

$\div 5 \quad \div 5$

$w = 14$

Solve $9w + 3 = 7w + 27$

$-7w \quad -7w$

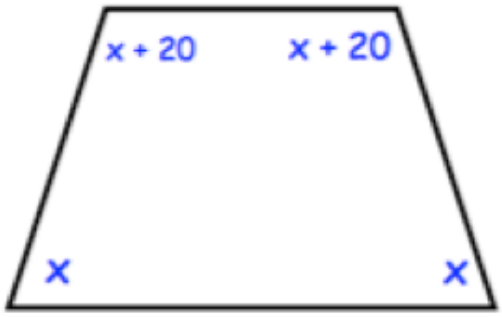
$2w + 3 = 27$

$-3 \quad -3$

$2w = 24$

$\div 2 \quad \div 2$

$w = 12$



Find the value of x

$x + x + x + 20 + x + 20 = 360$

$4x + 40 = 360$

$4x = 320$

$x = 80$

Tomato soup - serves 4 people

2 people

600g tomatoes	300
20g basil	10
4 tablespoons of olive oil	2
1 garlic clove	0.5

How much is needed for 6 people?

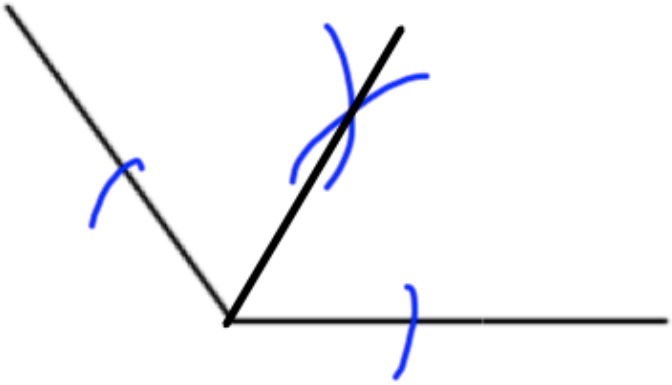
900g tomatoes

30g basil

6 tablespoons of olive oil

1.5 garlic cloves

An accurate version of this:



Construct the angle bisector for the angle above. Only use a ruler and pair of compasses.

March 2nd	5-a-day	Higher

Factorise

$x^2 + x - 12$

$(x+4)(x-3)$

Factorise

$x^2 - 100$

$(x-10)(x+10)$

Work out

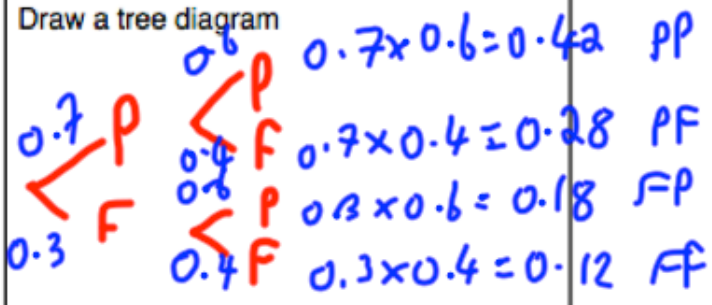
$\sqrt{2} \times \sqrt{32} = \sqrt{64} = 8$

Work out

$8\sqrt{15} \div 2\sqrt{3} = 4\sqrt{5}$

Joanne has to take a driving test which is in two parts, theory and practical.
Her chance of passing the theory part is 0.7.
Her chance of passing the practical part is 0.6.

Draw a tree diagram



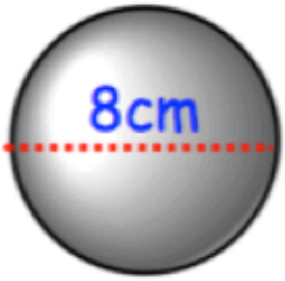
What is the probability she passes both parts?

0.42

What is the probability she passes only one part?

$0.28 + 0.18$

$= 0.46$



$V = \frac{4}{3}\pi r^3$

A sphere has diameter 8cm.

Calculate its volume

$\frac{4}{3}\pi \times 4^3$

$\frac{4}{3}\pi \times 64 = 268.1\,cm^3$