June 19th	5-a-day	Numeracy

Bradley plays a game. He has a 58% chance of winning.

What is the chance of him not winning?

42%

Gas Mark → × 14 → + 121 → Temperature in °C

Change Gas Mark 6 into degrees celius

6 × 14 = 84

84 + 121 = 205°C

415 x 9

415
× 9
3735

3735

÷ 2

6 + 3 = 9

For 6 people

2 cloves of garlic
4 ounces of chick peas
4 tablespoons of olive oil
5 fluid ounces of Tahina paste

For 9 people

3 people

3 ..... cloves of garlic — 1
6 ..... ounces of chick peas — 2
6 ..... tablespoons of olive oil — 2
7.5 ..... fluid ounces of Tahina paste — 2.5

Admission:
£2.40
Special offer
20% off

What is the price after the discount?

10% - 24p

20% - 48p

£2.40 - 48p = £1.92

June 19	5-a-day	Foundation

Which is smaller?

$\frac{2}{5}$ $\frac{2}{3}$

$\frac{2}{5}$

6cm $\times 1.5 = 9$

4cm $\times 1.5 = 6$

The rectangle is enlarged by scale factor 1.5.

What would the new length and width be?

9cm & 6cm

Expand and simplify

$(x + 7)(x + 3)$

$x^2 + 3x + 7x + 21$

$x^2 + 10x + 21$

Find the length of BC

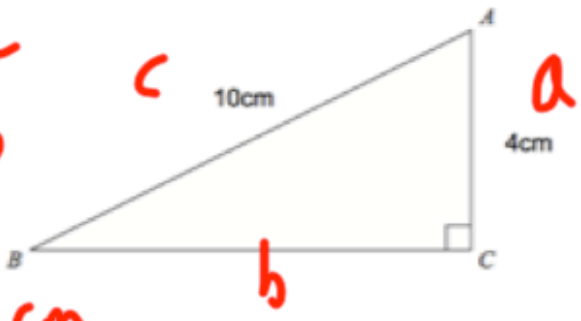
$a^2 + b^2 = c^2$

$4^2 + x^2 = 10^2$

$16 + x^2 = 100$

$x^2 = 84$

$x = 9.165$ cm



Calculate the perimeter

$10 + 4 + 9.165$

$= 23.165$cm

Calculate the area

$\frac{1}{2}(9.165) \times 4$

$= 18.33\text{cm}^2$

June 19 | **5-a-day** | **Higher**

Write 72 as a product of primes

2 × 36
2 × 18
3 × 6
3 × 2

$2 \times 2 \times 2 \times 3 \times 3$

$2^3 \times 3^2$

Work out and write your answer in standard form

4×10^3 multiplied by 6×10^5

24×10^8

2.4×10^9

$1\frac{4}{7} \div 2\frac{3}{4}$

$\frac{11}{7} \div \frac{11}{4}$

$\frac{11}{7} \times \frac{4}{11} = \frac{44}{77} = \frac{4}{7}$

Find the sides of the triangle shown.

$(x+5)^2 + (x-2)^2 = 13^2$

$x^2 + 10x + 25 + x^2 - 4x + 4 = 169$

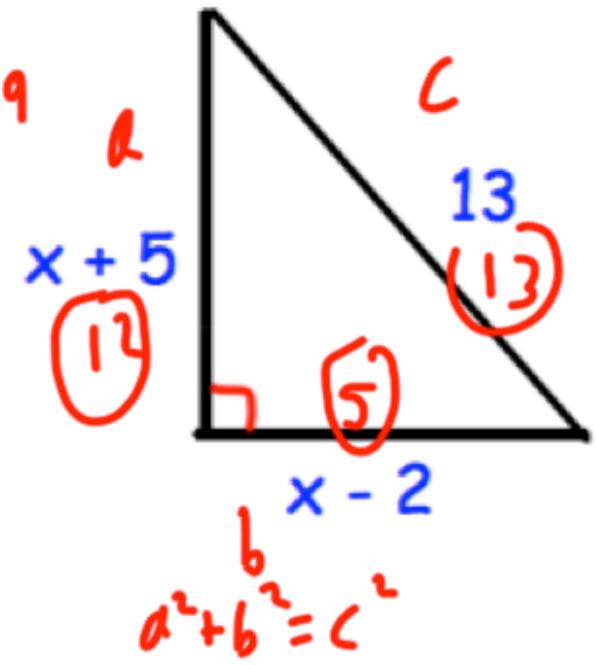
$2x^2 + 6x - 140 = 0$

$x^2 + 3x - 70 = 0$

$(x+10)(x-7) = 0$

$x = -10$ $\quad x = 7$

5, 12, 13



$a^2 + b^2 = c^2$