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January 3rd	5-a-day	Numeracy
16 x 10 160 7.2 x 10 72		91 x 100 9100 0.6 x 100 60
Draw a kite 		Draw a parallelogram 
Jenny has: Number of 10p coins: 5 Number of 20p coins: 4		How much money does Jenny have in total? 50p + 80p £1.30
 Football Rugby Hockey		About what percentage of people liked rugby? around 20%
Mary has £1.20 David has £2 How much money should David give Mary so they have the same amount? 40p		£1.20 + £2 = £3.20 £3.20 ÷ 2 = £1.60

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January 3rd	5-a-day	Foundation

Expand

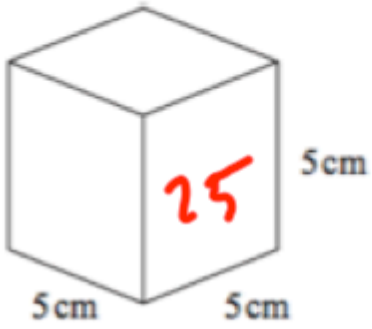
$y(3y + 2)$

$3y^2 + 2y$

Factorise

$x^2 - 5x$

$x(x-5)$



Calculate the surface area of this cube.

$25 \times 6 = 150\text{cm}^2$

Simplify

$w^3 \times w^5$

w^8

Simplify

$w^8 \div w^2$

w^6

Jam is made from sugar and strawberries in the ratio 3:5.

A jar contains 150g of sugar.

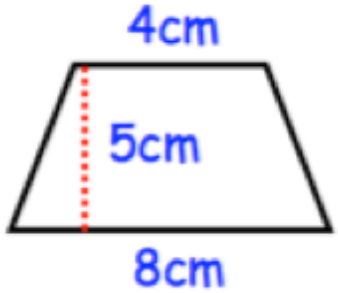
$150 \div 3 = 50$

How many grams of strawberries are in the jar?

$50 \times 5 = 250\text{g}$

How many grams of jam are in the jar?

$150 + 250 = 400\text{g}$



$\frac{1}{2}(a+b)h$

$\frac{1}{2}(4+8) \times 5$

Calculate the area of the trapezium

$\frac{1}{2}(12) \times 5$

$6 \times 5 = 30\text{cm}^2$

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January 3	5-a-day	Higher

A field is 3 metres longer than wide.

The width of the field is x metres.

The area of the field is $10m^2$

$x = 2cm$

Find x.

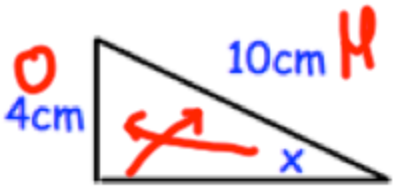
$x(x+3) = 10$

$x^2 + 3x - 10 = 0$

$(x+5)(x-2) = 0$

$x = -5$ or $x = 2$

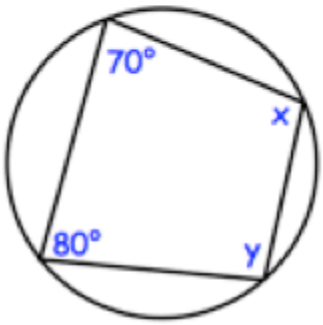
Shown is a right angled triangle.



Find angle x.

$\sin x = \frac{4}{10}$

$x = 23.58°$

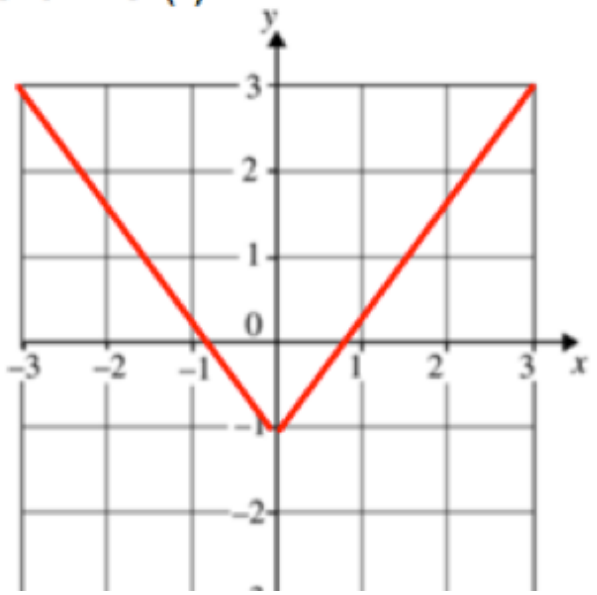


Find x and y

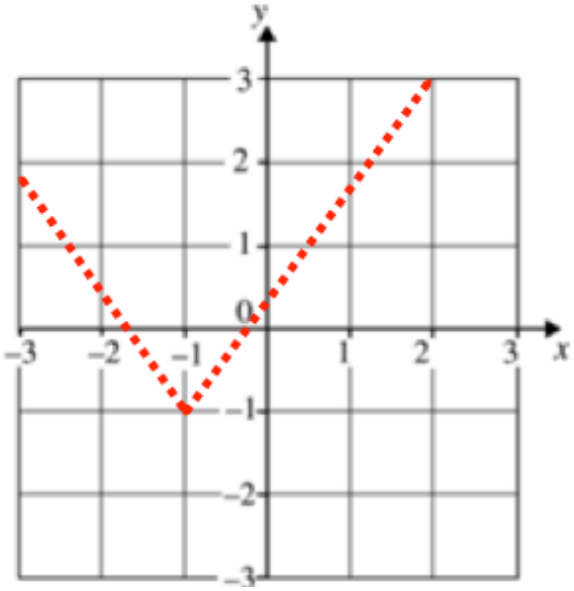
$x = 100°$

$y = 110°$

Shown is f(x)



Sketch the function f(x + 1)



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