

What is the special name for this type of triangle?

isosceles

A film lasts 80 minutes.
It ends at 17:10

What time did the film begin?

1 hour 20 mins

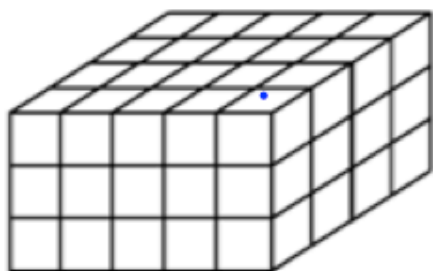
15:50

There are 20 counters in a bag.

8 of the counters are blue.
4 of the counters are red.
The rest are green.

What is the probability of selecting a green counter?

$$\frac{8}{20} = \frac{4}{10} = \frac{2}{5}$$



Each cube has side length 1cm.

Work out the volume of the cuboid.

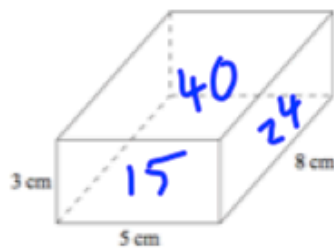
$$60\text{cm}^3$$

Work out the surface area.

$$\begin{array}{r} 20 \\ 20 \\ 12 \\ 12 \end{array} \quad \begin{array}{r} 15 \\ 15 \end{array}$$

$$94\text{cm}^2$$

Calculate the surface area



$$\begin{array}{r} 40 \\ 40 \\ 24 \\ 24 \\ 15 \\ \hline 15 \end{array} \quad 158 \text{ cm}^2$$

Express as a single number in index form:

a) $3^2 \times 3^3$

3^5

b) $3^6 \div 3^2$

3^4

Expand and simplify

$7x - (2x - 4y)$

$7x - 2x + 4y$

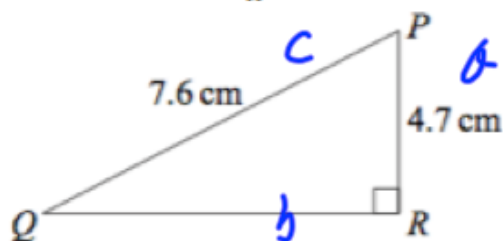
$5x + 4y$

Work out

$2\frac{2}{5} \times 1\frac{7}{8}$

$$2\frac{2}{5} \times 1\frac{7}{8} = \frac{9}{2} = 4\frac{1}{2}$$

Calculate the length of QR



$$\begin{aligned} a^2 + b^2 &= c^2 \\ 4.7^2 + QR^2 &= 7.6^2 \\ QR^2 &= 35.67 \\ QR &= 5.97 \text{ cm} \end{aligned}$$

April 4

5-a-day

Higher

Solve

$$\frac{x+5}{3} = 2(x-3)$$

$$x+5 = 6(x-3)$$

$$x+5 = 6x-18$$

$$5 = 5x-18$$

$$5x = 23 \quad x = 4.6$$

Work out

$$5y^0$$

5

Work out

$$(5y)^0$$

1

Solve

$$x^2 - x = 42$$

$$x^2 - x - 42 = 0$$

$$(x-7)(x+6) = 0$$

$$x = 7 \quad \text{or} \quad x = -6$$

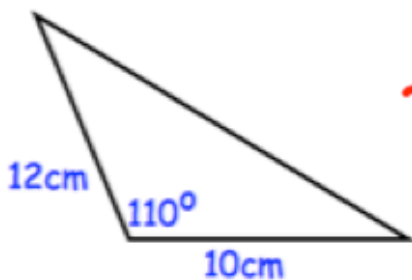
Expand and simplify

$$(3 - \sqrt{5})^2$$

$$(3 - \sqrt{5})(3 - \sqrt{5})$$

$$9 - 6\sqrt{5} + 5$$

$$14 - 6\sqrt{5}$$



Calculate the area of the triangle.

$$\frac{1}{2}(12)(10) \sin 110$$

$$60 \sin 110$$

$$= 56.4 \text{ cm}^2$$