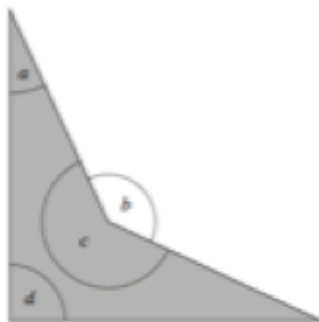


Write down the value of 9^2

$$9 \times 9 = 81$$

Write down the value of 2^3

$$2 \times 2 \times 2 = 8$$

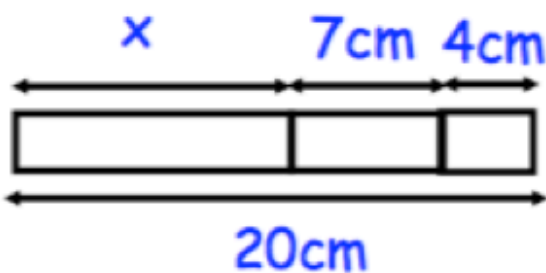


angle **b** is an obtuse angle

angle **d** is a right angle

angle **a** is an acute angle

angle **c** is a reflex angle



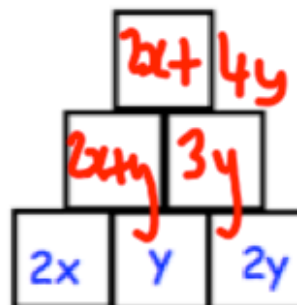
Find x

$$7 + 4 = 11$$

$$20 - 11 = 9 \text{ cm}$$

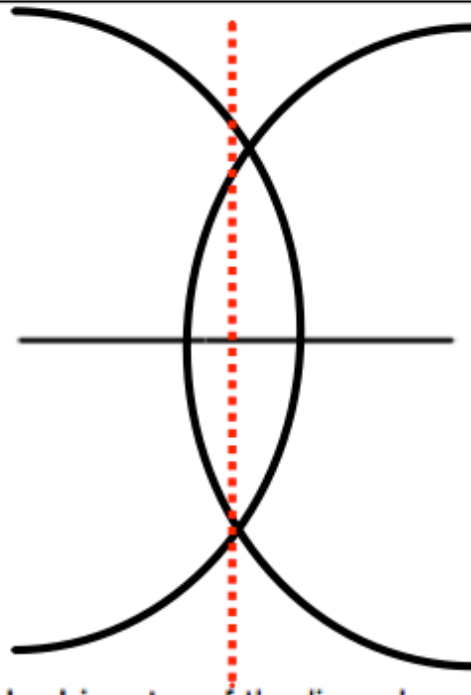
The expression in each block is found by adding the two blocks directly beneath it.

Find the missing expressions.



Find the perimeter

$$\begin{array}{r} 13.6 \\ 13.6 \\ 8.0 \\ \hline 218.0 \\ 43.2 \end{array}$$



Construct the perpendicular bisector of the line above.

£1 = 4.5 Polish zloty

Convert £20 into zloty

$$20 \times 4.5 = 90 \text{ zloty}$$

Convert 900 zloty into pounds

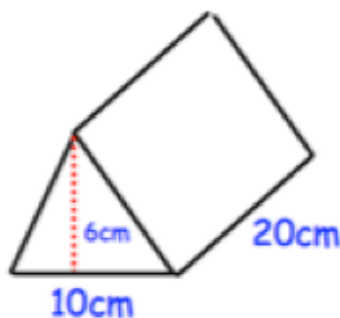
$$900 \div 4.5 = \text{£}200$$

Factorise $10x + 15$

$$5(2x + 3)$$

Factorise $y^2 + y$

$$y(y + 1)$$



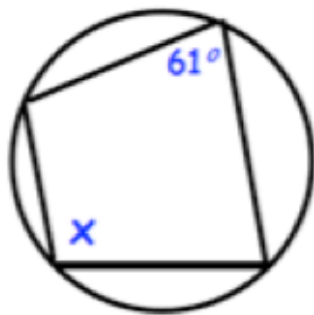
Calculate the volume of this triangular prism.

$$\begin{aligned} \text{Area of front} &= \frac{1}{2}(10 \times 6) = 30 \text{ cm}^2 \\ \text{Volume} &= 30 \times 20 = 600 \text{ cm}^3 \end{aligned}$$

May 26

5-a-day

Higher



Calculate angle x

$$180^\circ - 61^\circ = 119^\circ$$

Martin received a pay rise of 5%.
He now receives £651 a week.

What was his weekly salary?

$$105\% = 651$$

$$1\% = 6.2$$

$$100\% = \text{£}620$$

Convert 1.426262626... into a fraction

$$x = 1.4262626\dots$$

$$10x = 14.262626\dots$$

$$1000x = 1426.2626\dots$$

$$990x = 1412$$

$$x = \frac{1412}{990}$$

$$x = \frac{706}{495}$$

Solve using the quadratic formula,
to 1 decimal place.

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

$$a = 1 \quad b = -1 \quad c = -10$$

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$\frac{1 \pm \sqrt{1 - (4)(1)(-10)}}{2}$$

$$\frac{1 \pm \sqrt{1 - -40}}{2}$$

$$= \frac{1 \pm \sqrt{41}}{2}$$

$$x = \frac{1 + \sqrt{41}}{2} \quad \text{or} \quad x = \frac{1 - \sqrt{41}}{2}$$

$$x = 3.7 \quad \text{or} \quad x = -2.7$$