

Hannah says 5 squared is equal to 10.

Explain why she is wrong

$$5^2 = 25$$

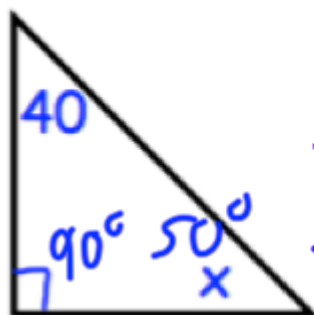
Hannah has doubled 5 instead of multiplying 5 by itself

Martin says 23×12 is equal to 206 because $20 \times 10 = 200$ and $3 \times 2 = 6$.

Explain why he is wrong

he also needs to do 20×2 and 10×3 .

$$\begin{array}{r} 23 \\ \times 12 \\ \hline 46 \\ 230 \\ \hline 276 \end{array}$$



The sum of the angles for a triangle is 180, not 360.

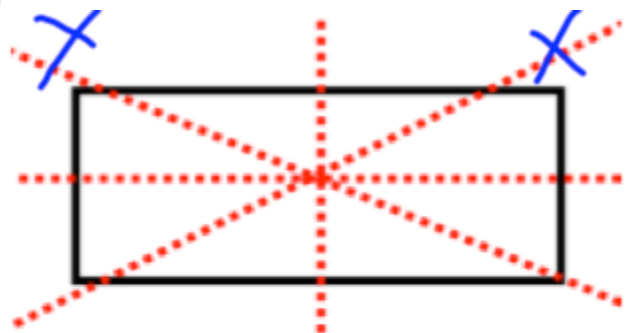
David says angle x is 140 degrees.

Explain why he is wrong

Nicola says a rectangle has 4 lines of symmetry.

Explain why she is wrong

The diagonals are not lines of symmetry.



Mollie tries to solve $4x - 1 = 15$ and got an answer $x = 3.5$

Explain why she is wrong

Should have added 1 to both sides.

$$\begin{array}{r} 4x - 1 = 15 \\ + (-1) \quad (-1) + 1 \\ \hline 4x = 14 \\ \div 4 \quad \div 4 \\ \hline x = 3.5 \end{array}$$

February 11th

5-a-day

Foundation

Work out the nth term of:

9 13 17 21

$$4n + 5$$

Work out the nth term for the even numbers.

2 4 6 8 10

$$2n$$

Work out the nth term for the odd numbers.

1 3 5 7

$$2n - 1$$

Solve

$$7y + 1 = 16 - 3y$$

$$10y + 1 = 16$$

$$10y = 15$$

$$y = 1.5$$

Gina is y years old.

Harry is two years younger than Gina.

$$y - 2$$

Martin is twice as old as Harry.

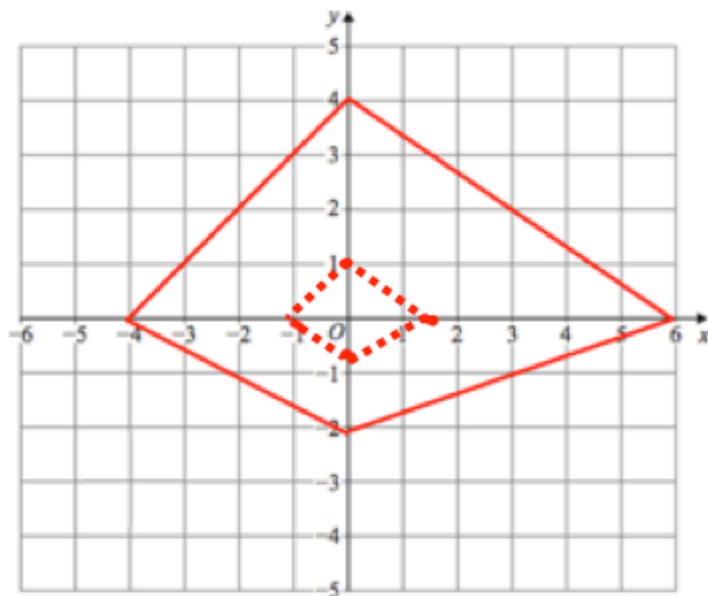
Write an expression for Harry's age.

$$y - 2$$

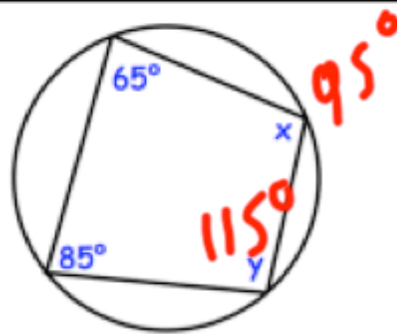
$$2\frac{3}{4} \times 1\frac{2}{7}$$

$$\frac{11}{4} \times \frac{9}{7} = \frac{99}{28}$$

$$3\frac{15}{28}$$



Enlarge the quadrilateral by scale factor $\frac{1}{4}$ with centre of enlargement (0,0)



Find x and y

$$x = 95^\circ$$

$$y = 115^\circ$$

Find the volume of a sphere, radius 10cm.

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

$$4188.8 \text{ cm}^3$$

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

$$\frac{10 \pm \sqrt{100 - 20}}{10}$$

Solve using the quadratic formula

$$5x^2 - 10x + 1 = 0$$

$$a=5 \quad b=-10 \quad c=1$$

$$\frac{10 + \sqrt{80}}{10} \quad \text{or} \quad \frac{10 - \sqrt{80}}{10}$$

$$1.894 \quad \text{or} \quad 0.1056$$