

February 13th	5-a-day	Numeracy
<p>Here is a list of numbers</p> <p>12 14 15 19 20 30 34</p> <p>Choose three numbers:</p> <p>$15 + 19 = 34$</p>		
<p>Arrange in order from lowest to highest</p> <p>2kg 1800g 2¼kg 2090g</p>	<p>1800g 2kg 2090g 2¼kg</p>	
<p>Add together 18.8 and 0.27</p> <p>$\begin{array}{r} 18.8 \\ + 0.27 \\ \hline 19.07 \end{array}$</p>		
<p>Work out $-10 - 2$</p> <p>-12</p>		
<p>There are 200 passengers on a plane.</p> <p>30% are male</p> <p>How many are female? 70%</p>	<p>$10\% = 20$ $70\% = 140$</p>	

Solve

$2x - 3 > 10$ $2x > 13$
 $x > 6.5$

Solve

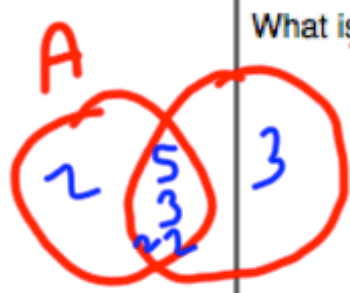
$4x + 3 > 2x + 9$
 $2x + 3 > 9$
 $2x > 6$ $x > 3$

A taxi journey costs £4 plus 30p per mile.

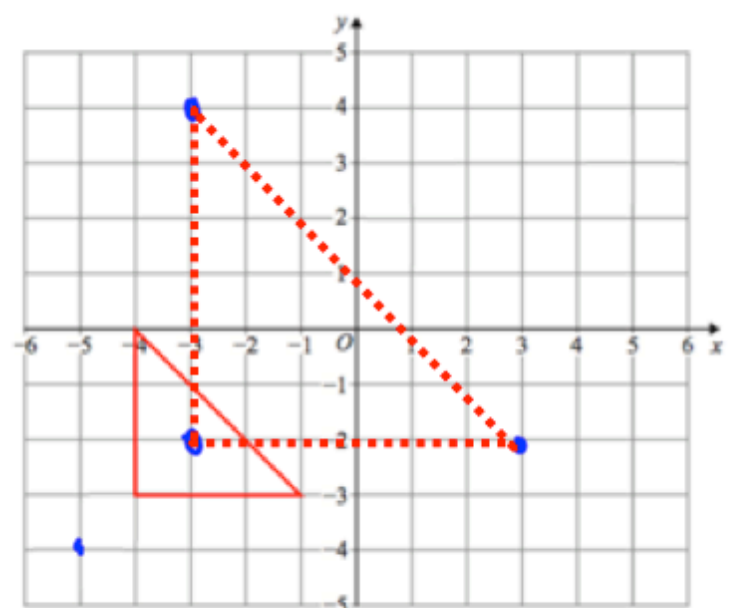
How much will a 6 mile journey cost?

$30p \times 6 = \pounds 1.80$
 $\pounds 5.80$

~~$A = 2^3 \times 3 \times 5$~~
 ~~$B = 2^2 \times 3^2 \times 5$~~



What is the HCF of A and B.
 $5 \times 3 \times 2 \times 2$
 60



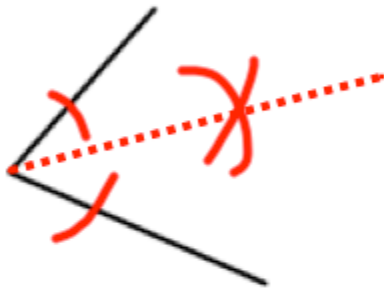
Enlarge the red triangle, by scale factor 2, centre of enlargement (-5, -4)

Calculate the gradient of the straight line passing through (0, 5) and (3, 11).

$$\frac{y_2 - y_1}{x_2 - x_1} =$$

Write down the equation of the line.

$$\frac{11 - 5}{3 - 0} = \frac{6}{3} = 2$$



Construct the angle bisector

accurate version.



This wheel has a circumference of 1 metre. What is the size of the radius?

$$C = \pi \times d$$

$$1 = \pi \times d$$

$$\text{Diameter } d = \frac{1}{\pi} = 31.831 \text{ cm}$$

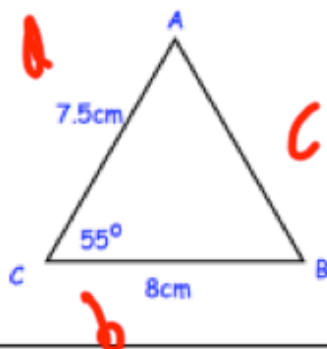
$$\text{radius} = 15.915 \text{ cm}$$

In a sale, normal prices are reduced by 25%.

The sale price of a calculator is £8.82

Calculate the normal price of the calculator.

$$£8.82 \div 0.75 = £11.76$$



Calculate the length of AB.

$$c^2 = a^2 + b^2 - 2ab \cos C$$

$$c^2 = 120.25 - 68.82917236$$

$$c^2 = 51.42... \quad c = 7.171 \text{ cm}$$