

May 12th

5-a-day

Numeracy

Copy this sentence, writing the number in words.

The year is 2014.

The year is two thousand and fourteen

London	05 33	06 34	• 07 39	08 12
Paris	08 23	09 23	• 10 23	10 47
Paris	13 43	15 07	16 10	16 43
London	16 28	17 57	18 57	19 25

Donna gets the 07:39 from London to Paris.

How long does the journey last? Give your answer in hours and minutes.

2 hours 44 mins

A jar contains 240 sweets.

35% of the sweets are orange.

$\frac{3}{8}$ of the sweets are lemon.

The rest are blackcurrant.

How many blackcurrant sweets are in the jar?

$$10\% = 24$$

$$30\% = 72$$

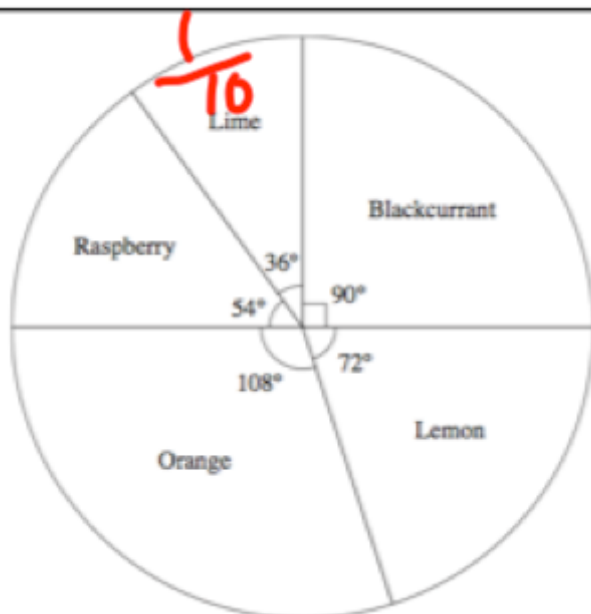
$$5\% = 12$$

$$35\% = 84$$

$$\frac{3}{8} \text{ of } 240 = 90$$

$$\begin{array}{r} 84 \\ 96 \\ \hline 174 \end{array}$$

$$\begin{array}{r} 240 \\ - 174 \\ \hline 66 \end{array}$$



What fraction of the sweets are blackcurrant?

$\frac{1}{4}$

There are 8 lime sweets in the bag. How many sweets are there altogether?

$$36\% \text{ is } \frac{1}{10} \text{ of } 360^\circ$$

$$8 \times 10 = 80$$

Use your calculator to work out

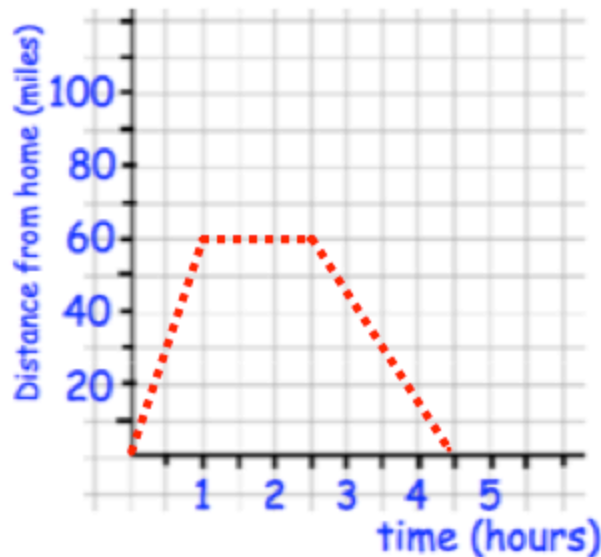
$$\frac{7.6 \times 18}{3.8 + 2.4}$$

Write down the full calculator display.

22.06451613

Write your answer to one decimal place.

22.1



Using the information above, complete the distance-time graph.

Sophie travels from home to work, which is 60 miles away. It takes one hour.

Sophie stays at work for 1 hour 30 minutes.

She then travels home, but due to traffic, it takes two hours.

What was Sophie's speed on the journey home?

$$\frac{d}{t} \quad \frac{60}{2} = 30 \text{ mph}$$

k is odd. m is even.

even even
↓ ↓

Is $2k + m$, always odd, always even or either?

Tick the correct box

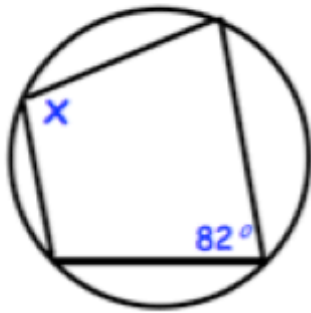
odd

even

either

Multiply out $6(x - 3)$

$6x - 18$



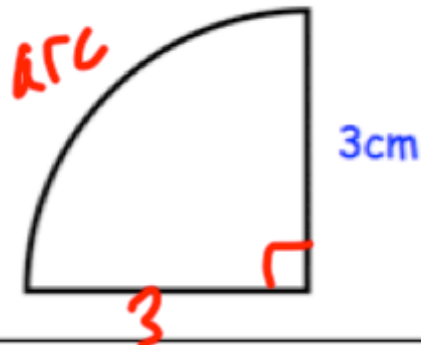
Calculate angle x

98°

Find the perimeter

arc: $(\pi \times 6) \div 4$
 $= 4.712 \dots$

Perimeter
 $4.712 \dots + 6 = 10.7 \text{ cm}$



A bag contains 7 sweets.

4 are strawberry
 3 are lemon

James picks 3 at random.

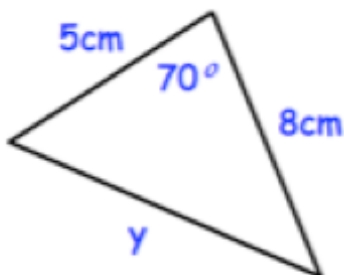
SSS

LLL

$$\left. \begin{aligned} \frac{4}{7} \times \frac{3}{6} \times \frac{2}{5} &= \frac{4}{35} \\ \frac{3}{7} \times \frac{2}{6} \times \frac{1}{5} &= \frac{1}{35} \end{aligned} \right\} + = \left(\frac{1}{7} \right)$$

Convert 0.515515515... into a fraction

$$\frac{515}{999}$$



Calculate y.

$$\begin{aligned} y^2 &= 5^2 + 8^2 - 2 \times 5 \times 8 \cos 70 \\ y^2 &= 89 - 27.36 \dots \\ y^2 &= 61.63 \dots \\ y &= 7.85 \text{ cm} \end{aligned}$$