



22nd February

$$\frac{5}{8} - \frac{1}{3}$$

$$\frac{15}{24} - \frac{8}{24}$$

$$\frac{7}{24}$$

40% of 70

$$10\% = 7$$

$$7 \times 4 = 28$$

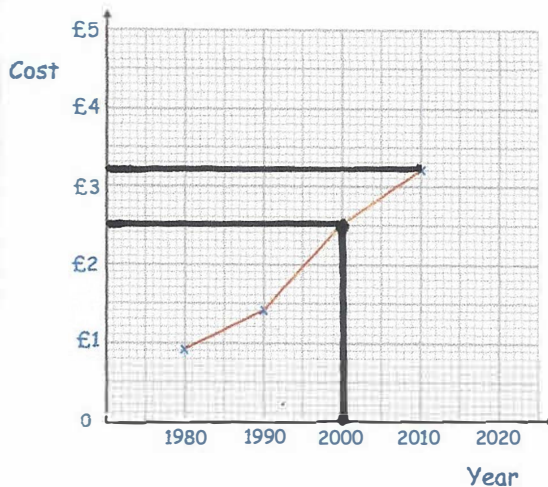
$$28$$

Write 0.375 as a fraction.  
Give your answer in its simplest form.

$$\frac{3}{8}$$

$$\frac{375}{1000} = \frac{75}{200} = \frac{15}{40} = \frac{3}{8}$$

The line graph below shows the cost of a coffee in a shop over 30 years.



In which year was the price £2.50

2000

Estimate the price of a coffee in 2010.

£3.20



23rd February

$$2.3 \times 56$$

$$\begin{array}{r} \phantom{x} 56 \\ \times 23 \\ \hline \phantom{x} 168 \\ \phantom{x} 1120 \\ \hline \phantom{x} 1288 \end{array}$$

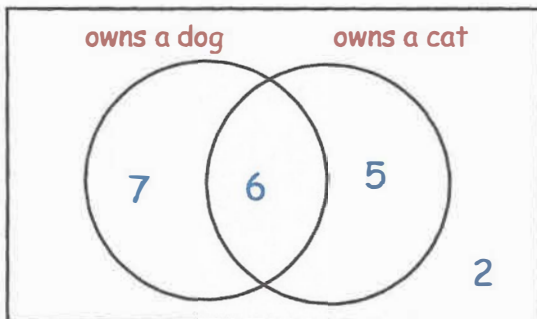
128.8

$$15\% \times 840$$

$$\begin{array}{r} 10\% - 84 \\ 5\% - 42 \\ \hline 126 \end{array}$$

126

The Venn diagram shows information about the pets owned in a class.



How many children own a cat?

$$6 + 5 = 11$$

What percentage of children do not own a dog or a cat?

$$7 + 6 + 5 + 2 = 20$$

$$\frac{2}{20} = \frac{1}{10} \quad \underline{10\%}$$

Work out the value of y

$$4y - 7 = 2y + 15$$

$$y = 11$$

$$\begin{array}{l} 4y - 7 = 2y + 15 \\ 2y - 7 = 15 \quad (-2y) \\ 2y = 22 \quad (+7) \\ y = 11 \quad \div 2 \end{array}$$



24th February

$$7\frac{3}{5} = \frac{38}{5}$$

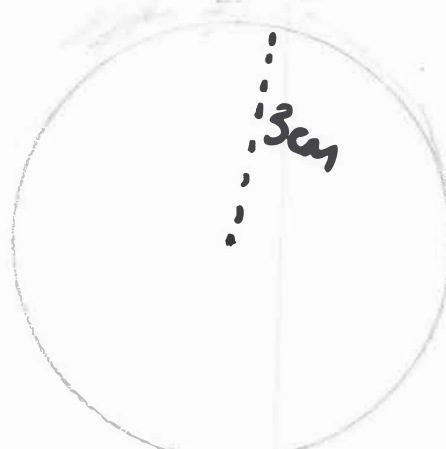
$$7 \times 5 + 3 = 38$$

38

$$\begin{array}{r} 36 \\ 26 \overline{) 936} \\ \underline{78} \\ 156 \end{array}$$

36

Draw a circle with a radius of 3cm.



What size is the diameter of the circle?

6cm

There are red, white and yellow counters in a bag.

For every 3 red counters, there are 2 white counters.

There are 25% more yellow counters than red counters.

If there are 40 white counters in the bag, how many yellow counters are there?

$$3:2 = 60:40$$

so 60 red

$$25\% \text{ more is } 60 + 15 = \underline{75}$$



25th February

$1,094 \times 28$

$$\begin{array}{r} 1094 \\ \times 28 \\ \hline 8752 \\ 21880 \\ \hline 30632 \end{array}$$

30632

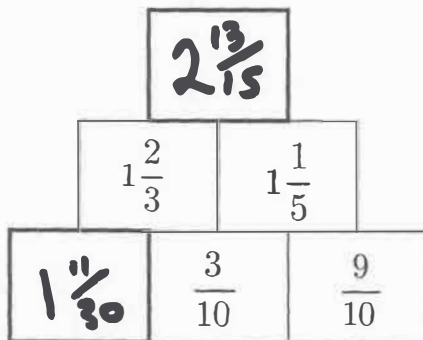
$7 + 22 \times 12 + 18$

$$\begin{array}{r} 22 \\ \times 12 \\ \hline 44 \\ 220 \\ \hline 264 \end{array}$$

$7 + 264 + 18 =$

289

In this pyramid, the number in each box is the sum of the two numbers below it.



Find the two missing numbers

$$1\frac{2}{3} - \frac{3}{10} = \frac{50}{30} - \frac{9}{30} = \frac{41}{30} = 1\frac{11}{30}$$

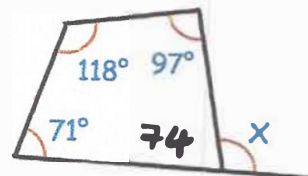
$$1\frac{2}{3} + 1\frac{1}{5} = \frac{5}{3} + \frac{6}{5} = \frac{25 + 18}{15} = \frac{43}{15} = 2\frac{13}{15}$$

Find the size of angle x

$118 + 97 + 71 = 286$

$360 - 286 = 74$

$180 - 74 = \underline{106}$





26th February

$8^3$

$$8 \times 8 = 64$$

$$\begin{array}{r} 64 \\ \times 8 \\ \hline 512 \end{array}$$

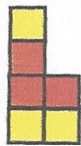
512

$4752 \div 11$

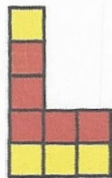
$$\begin{array}{r} 432 \\ 11 \overline{)4752} \end{array}$$

432

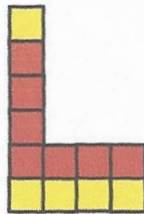
Here is a pattern of red and yellow squares



Pattern 1



Pattern 2



Pattern 3

Which of the following are true?

- A Pattern 10 has 11 yellow squares
- B The number of red squares is always odd
- C Every pattern has more red squares than yellow squares
- D Pattern 5 has 11 red squares

The area of this triangle is  $30\text{cm}^2$

Find the length of the base of the triangle,  $y$ .

10cm

