

Bar Modelling Practice Boolean Maths Conf 19/1/19

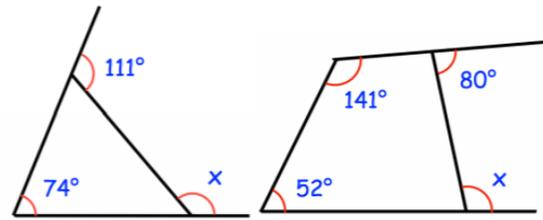
Charlie has £6.50, Dave has £13.70. How much do they have together?

Andy gets £20 in pocket money. He spends £1.20 on sweets, £4.50 on a t-shirt, and £5 on a dvd. He saves the rest. How much does he save?

6 friends go to a restaurant. Their bill is £150. They split it equally. How much does each person pay.

Bill has £152, John has £80. Bill gives John some money so that they have the same amount each. How much will they each have?

Bill has £142, John has £37. After they spent an equal amount of money, Bill has 4 times as much money as John. How much did they each spend?



Find $\frac{5}{6}$ of 120

Find $\frac{5}{6}$ of $\frac{1}{2}$

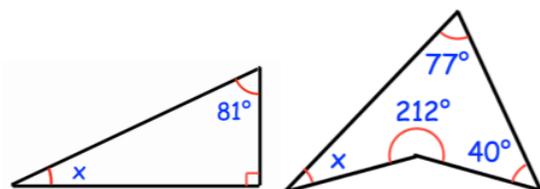
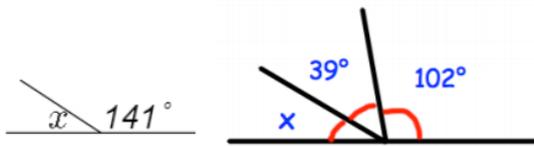
$\frac{2}{5}$ of a number is 182.
What is the number?

$\frac{2}{5}$ of x is 182. x is $\frac{5}{8}$ of y.
What is the value of y?

Dave has £200. He spends $\frac{1}{4}$ of his money on trainers.
He saves $\frac{2}{3}$ of what's left. How much money does he save?

There are $\frac{5}{6}$ as many apples as bananas in a box. If there are 24 bananas, then how many pieces of fruit are there?

There are $\frac{3}{8}$ as many apples as bananas in a box. If there are 24 apples, then how many pieces of fruit are there?



To make purple paint, blue and red paint are mixed in the ratio 2:5. What fraction is red?

$$x:y = 2:5$$

What fraction of y is x ?

What fraction of x is y ?

What fraction of the total is x ?

Ahmed and Brandon share £35 in the ratio 4:3. How much does each person get?

$$x + y = 88$$

$$x:y = 7:4$$

Work out the value of $x - y$

Ahmed and Brandon share some money in the ratio 4:5. Brandon gets £30. How much do they have together?

Ahmed and Brandon share some money in the ratio 7:5. Ahmed gets £30 more than Brandon. How much does each person get?

Kyle is 10 years older than Alfie. In 3 years' time, the ratio of Kyle's age to Alfie's age will be 5:3. What age is Kyle now?

Dave gets £110 pocket money. He spends 70% of it. How much did he save?

Dave gets £120 pocket money. After a visit to Ready to Learn, his parents reduce this by 70%. How much pocket money does he get now?

A dress is reduced in a sale by 20%. It now costs £120. How much did it cost before the reduction?

Due to Brexit, a dress increases in price by 20%. It now costs £150. How much did it cost before the reduction?

Find the mean of 2, 4, 5, 6, 8

6, 2, 11, ? Mean = 6

Adam and six other men ran a race
The times, in seconds of the six other men are shown.
9.75 9.79 9.80 9.88 9.94 9.98
The mean for **all seven** men was 9.83 seconds.
Did Adam win the race?

Walkden Reds is a basketball team.
At the end of 11 games, their mean score was 33 points per game.
At the end of 10 games, their mean score was 2 points higher.
Jordan says, "Walkden Reds must have scored 13 points in their 11th game."
Is Jordan right? You must show how you get your answer.