JustMaths

A piece of wood is 180 cm long.
Tom cuts it into three pieces in the ratio $2: 3: 4$
Work out the length of the longest piece.

$$
\begin{array}{rl}
\text { Nomberofpats } 2+3+4: 9 & 2: 3: 4 \\
\text { Eachpatt } 180 \div 9=20 & 40: 60: 80
\end{array}
$$

The longest prese is 80 cm

JustMaths

Sylvie shares $£ 45$ between Ann, Bob and Cath in the ratio 3:2:4

Work out the amount each person gets.

$$
\begin{aligned}
& 3+2+4=9 \text { parts } \\
& £ 45 \div 9=£ 5
\end{aligned}
$$



A box contains milk chocolates and dark chocolates only.
The number of milk chocolates to the number of dark chocolates is in the ratio $2: 1$

There are 24 milk chocolates.
Work out the total number of chocolates.


So $24 \div 2=12$
The total number of

$$
\begin{aligned}
\text { chocolates } & =24+12 \\
& =36
\end{aligned}
$$

JustMaths

A school's mathematics department spend money on books, photocopying and computer software in the ratio 3 : 5: 6. The department spends $£ 1200$ on photocopying.

Find the total expenditure.

$3 x \neq 240$
$=720$

$$
6 x € 240
$$

$$
=€ 1440
$$

$$
\begin{array}{r}
\text { Tola } \\
1200 \\
720 \\
1440 \\
\hline 3360
\end{array}
$$

JustMaths
This is simple than ctaryears
at first.
Jim has only 5 p coins and 10 p coins.
The ratio of the number of 5 p coins to the number of 10 p coins is $2: 3$

Work out the ratio of the total value of $\mathbf{5 p}$ coins : the total value of 10 p coins Give your answer in its simplest form.

Rato of NumBER
Ratio of VAUE

$$
\begin{aligned}
& \text { Spcouns }: 10 p \text { poins(2) } \\
& 2: 3 \\
& 10 p: 30 p .
\end{aligned}
$$

this can de
simplified to $1: 3$

JustMaths
This is just one method of solungthis question.

Pat and Julie share some money in the ratio $2: 5$
Julie gets $£ 45$ more than Pat.
How much money did Pat get?


Julie gets
E 45 more and
has 3 parts morethan
Pat so 1 pat $=£ 15$
so lat gets $£ 30$

