



Maths: Week Four

Short Division Problems

(Theme: *Unusual and Wacky Sports*)

Year 5

HOME LEARNING

Maths warm ups

Which is greater?

135 - 95 or **10 x 3**

If **45** is the answer, what could be the question?
(e.g. $180 \div 4$, or $46 - 1$)
Come up with lots of questions, see if you can include $+$ $-$ \times \div

Which could be the odd one out? Why?

50%



0.5

$\frac{1}{2}$

Properties of numbers

ABonky

A guide to short division

Some division we may be able to do easily in our heads, using out times tables.

For example, if you know $3 \times 5 = 15$,
Then you also know $15 \div 5 = 3$.

If the division is not so simple though, try the short division method (sometimes called the bus stop method).

Example 1: $675 \div 5$

1. We set it out like this:

$$5 \overline{) 675}$$

2. Then we see how many 5s fit in 6. The answer is 1, so we put that on top. But we also have 1 left, so we 'carry' that, to next to the 7.

$$\begin{array}{r} 1 \\ 5 \overline{) 6^1 7 5} \end{array}$$

3. Next, how many 5s fit in 17? The answer is 3 (because $3 \times 5 = 15$) with 2 left over.

$$\begin{array}{r} 13 \\ 5 \overline{) 6^1 7^2 5} \end{array}$$

4. Finally, how many 5s fit into 25. The answer is 5 (because $5 \times 5 = 25$), so we put that on top.

$$\begin{array}{r} 135 \\ 5 \overline{) 6^1 7^2 5} \end{array}$$

And the final answer is 135!

Example 2: $408 \div 12$

1. How many 12s go into 4?
None, so we put 0 on top, and carry over the 4.

$$\begin{array}{r} 0 \\ 12 \overline{) 408} \end{array}$$

2. Because we carried over the 4, it is now how many 12s in 40? The answer is 3, with 4 left (because $3 \times 12 = 36$).

$$\begin{array}{r} 03 \\ 12 \overline{) 4^4 0^4 8} \end{array}$$

3. Now we have how many 12s in 48? The answer is 4 (because $4 \times 12 = 48$).

$$\begin{array}{r} 034 \\ 12 \overline{) 4^4 0^4 8} \end{array}$$

So, our final answer is 34!

Find this video for some clear help:

YouTube  Let's Do Math 42.8K subscribers

Ms Steele's
Speed Guide
to
Short Division

Speed Guide to Short Division
336,715 views • Nov 7, 2013

2.3K 240 SHARE SAVE ...

The World Tin Bath Champs

Every year in August, Castletown harbour is home to the utterly bonkers World Tin Bath Racing Championships. Make sure you visit next time it is on!

One year Mr Brooks entered, but his tin bath had sunk before he even got to the finish line...

If there are 96 tin bath racers split evenly into 8 events, how many racers are in each event?



Viking Longboat Races

In Peel every summer is the Viking Longboat races, where teams of friends row as fast as they can from Peel harbour to the bay and back. The hardest part is turning corners!

Each team has 10 rowers and one coxswain on board. If 462 people in total took part, how many teams were there?



Extreme Ironing!

Extreme ironing is an unusual sport where people iron their clothes in dangerous situations like skydiving or on mountain tops!

It has been called 'the latest danger sport that combines the thrills of an extreme outdoor activity with the satisfaction of a well-pressed shirt!'

Each skydiver manages to iron 15 shirts. 105 shirts are ironed in total. How many skydivers were there?



Bubble Football

This is football with a twist! Every player is strapped into a giant inflatable bubble, great fun when you get knocked over!

Inflatable bubble suits are sold in packs of seven. A football club needs 91 bubble suits. How many packs should they order?



Kabbadi

Kabaddi is one of India's most popular sports. Players cross into the other team's half to try and tag them and escape. However, they need to keep repeating the word 'Kabaddi' for the whole turn, to prove they are not breathing in!

There are 12 people in a kabaddi team. 10 teams enter a competition, plus another 156 individuals who were arranged into teams of 12.

How many teams entered the competition?



Toe Wrestling

Toe wrestling is a bizarre version of arm wrestling. It was invented by four friends in a pub in 1974.

The same pub still hosts the annual world championships!

The competition organisers are ordering toenail clippers before the world championships! They receive one box of 173 toenail clippers and another box of 149 clippers.

They put them together and then share them out into seven pots. How many toenail clippers will be in each of the pots?



Make your own word problems!

Find out about some other unusual and wacky sports, and come up with your own division word problem.

Test it out on someone in your house!

