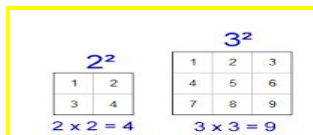


Tuesday 31st March 2020

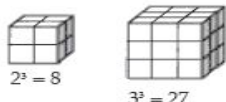
Today we are going to continue our learning on short division using the bus stop method.

First, lets remind ourselves of square and cube numbers.

To square a number, you multiply the number by itself. Eg 3 squared = $3 \times 3 =$



To cube a number, you multiply the number by itself 3 times eg 3 cubed = $3 \times 3 \times 3 =$



Square numbers

Evaluate each of the following:

a) 4^2

b) 10^2

c) 8^2

d) 12^2

e) 1^2

f) 6^2

g) 7^2

h) 5^2

i) 15^2

Cube numbers -

Evaluate the following expressions:

a) 4^3

b) 2^3

c) 3^3

d) 5^3

e) 1^3

WALT divide using the bus stop method

Today we are going to continue to divide using the bus stop method.

If you have forgotten the method, click on the link below

<https://www.youtube.com/watch?v=trjepeOy2rc>

So, a quick reminder for calculating division using the bus stop method.

Short Division

Step One: Write the question out using the formal style.

$$5 \overline{) 7532}$$

Step Two: Calculate how many times 5 goes into the first number (7). It goes into it 1 time, so write 1 above the line.

$$\begin{array}{r} 1 \\ 5 \overline{) 7532} \end{array}$$

Step Three: 5 goes into 7 once, remainder 2. We need to carry this remainder:

$$\begin{array}{r} 1 \\ 5 \overline{) 72532} \end{array}$$

Step Four: Now calculate how many times 5 goes into 25. Write this above the line.

$$\begin{array}{r} 15 \\ 5 \overline{) 72532} \end{array}$$

There's no remainder this time, so we don't need to carry anything.

Step Five: Continue this method until you reach the end of the number.

$$\begin{array}{r} 1506 \text{ r}2 \\ 5 \overline{) 72532} \end{array}$$

The number above the line is your answer!

Step Six: Check your work.

Does the answer seem right?
If unsure, check the question and work it out again.

WALT divide using the bus stop method – 30.03.20

TASK -

$$9 \overline{)927}$$

$$3 \overline{)411}$$

$$9 \overline{)981}$$

$$6 \overline{)924}$$

$$3 \overline{)537}$$

$$6 \overline{)702}$$

$$5 \overline{)575}$$

$$3 \overline{)417}$$

Now use this method to solve the following word problems

1. Miss Rodgers has 466 new pencils to share between 4 classes. How many pencils will each class get?
2. A bucket of fried chicken cost £9 each. Your family has £359 saved up. How many buckets of fried chicken can you get for an evening in?
3. Last month, when you were in the cinema, you saw that the 504 seats were divided into 7 equal sections. How many seats were there in each section?
4. A batch of new reading books has been delivered to school. There are 175 books. Each class needs 8 books. How many classes will get the books that they need? Will there be a remainder?

Challenge questions (chunking) - optional

5. Ms Husain, Miss Grimwood and Miss Dawn share a big box of chocolates. There are 12 different types of chocolate in the box. There are 168 chocolates altogether. How many are there of each type of chocolate?
6. Goodness, CJ and Nimco go 'Easter egg hunting' together. Goodness gets 26 eggs. CJ gets 21. Nimco gets 25. If they share them equally, how many sweets will each get in the end?

Answers: check questions 1-4 using a calculator

Challenge question answers -

5. $168 \div 12 = 14$ of each type of choc
(the fact that 3 teachers are sharing them is not relevant)

6. Two step problem
 $26+21+25 = 72$
 $72 \div 3 = 24$ sweets each