Thursday - maths

Power up

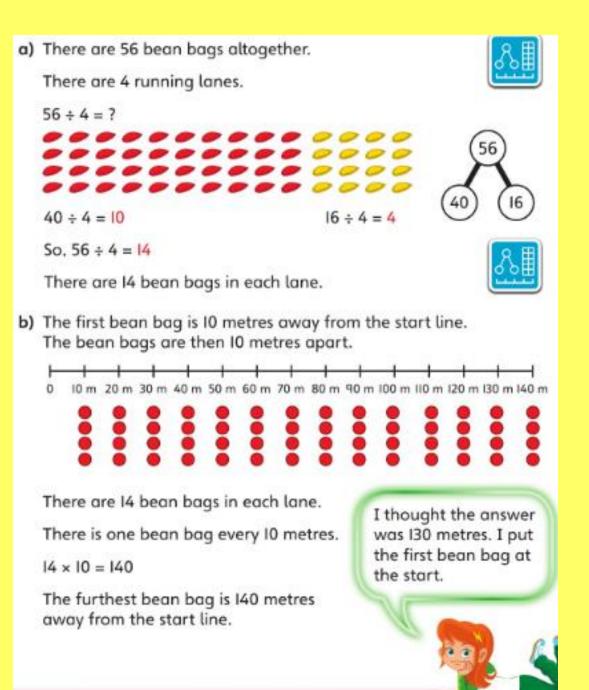




a) 56 bean bags have been used. There is an equal number of bean bags in each lane. How many bean bags are in each lane?

b) There is a bean bag every I0 metres in each lane. How far is the furthest bean bag away from the start line?

Power up answer



Remember that divide means to share one number into another.

If you wanted to work out this calculation, 84÷4 what methods could you use?

Today, we will be using the grid below to support us. First of all build your number in step 1.

E.G 84 has 8 tens (so we'll draw 8 yellow dots) and 4 ones (so we'll draw 4 red dots)

<u>Step 1</u> Build the Number	Step 2Step 3Share the tensShare the ones		
	I Ω	I Ω	

84 ÷ 4 =

Next, we will divide our tens into the 4 rows below, one at a time.

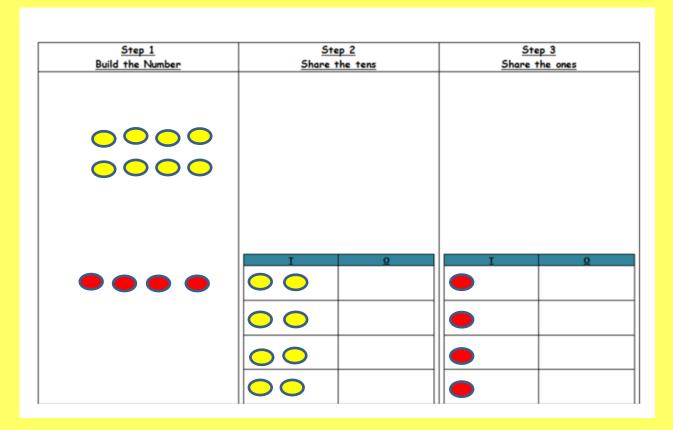
There are 2 tens in each row, so $80 \div 4 = 20$.

<u>Step 1</u> Build the Number	<u>Step 2</u> Share the tens	<u>Step 3</u> Share the ones		
•••		<u>Ι Ω</u>		

LO: To divide using an informal method 84 ÷ 4 =

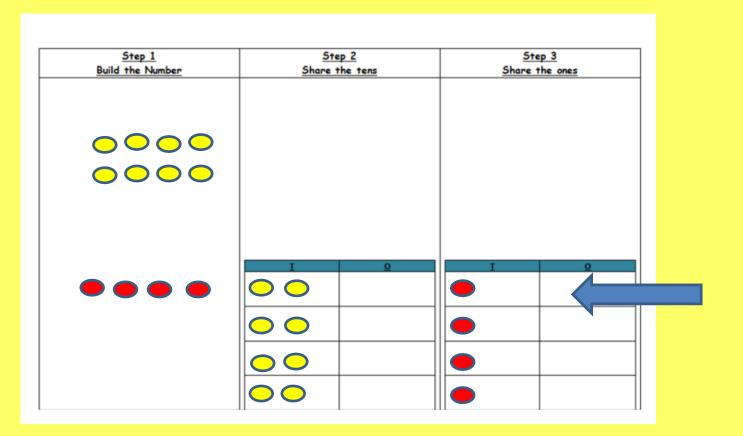
Finally, we will divide our ones into the 4 rows below, one at a time.

There is 1 one token in each row, so $4 \div 4 = 1$.



Your final answer is the amount in one row, so 2 tens and 1 one will equal 21.

84 ÷ 4 = 21



Success Criteria:

- Partition the 2-digit number
- Divide the tens
- Divide the ones
- Exchange tens to ones if needed

LO: To divide using an informal method Work out the following calculations using this method of partitioning. Fluency

1. 84÷2 2. 69÷3 3. 88÷4 4. 96÷3 5. 91÷7 6. 75÷5 7. 96÷6 8. 68÷4

<u>Step 1</u> Build the Number	<u>Step 2</u> <u>Share the tens</u>		<u>Step 3</u> Share the ones	
	I	<u>0</u>	I	<u>0</u>

Check your answers

- 1. 84÷2=42
- 2. 69÷3=23
- 3. 88÷4=22
- 4. 96÷3=32
- 5. 91÷7=13
- 6. 75÷5=15
- 7. 96÷6=16
- 8. 68÷4=17

<u>Reasoning</u>

Rosie writes, $85 \div 3 = 28 \text{ r} 1$

She says 85 must be 1 away from a multiple of 3 Do you agree?

37 sweets are shared between 4 friends. How many sweets are left over?

Four children attempt to solve this problem.

- Alex says it's 1
- Mo says it's 9
- Eva says it's 9 r 1
- Jack says it's 8 r 5

Can you explain who is correct and the mistakes other people have made?

Reasoning answer

I agree, remainder 1 means there is 1 left over. 85 is one more than 84 which is a multiple of 3

Alex is correct as there will be one remaining sweet. Mo has found how many sweets each friend will receive. Eva has written the answer to the calculation. Jack has found a remainder that is larger than the divisor so is incorrect.

LO: To divide using an informal method Whitney is thinking of a 2-digit number Problem Solving that is less than 50 When it is divided by 2, there is no remainder. When it is divided by 3, there is a remainder of 1 When it is divided by 5, there is a remainder of 3 What number is Whitney thinking of?

Problem Solving answers – how did you do?

Whitney is thinking of 28