

Tuesday- maths

Power Up

Match the numbers in words to the numbers in the grid.

Write down the number that does not match.

Two hundred and thirty-three

Three hundred and fifty-four

Five hundred and thirty-two

Three hundred and fifty-five

Two hundred and twenty-three

I can draw the three place value cards needed to make the number that does not match.



Match the numbers in words to the numbers in the grid.

Write down the number that does not match.

Two hundred and thirty-three

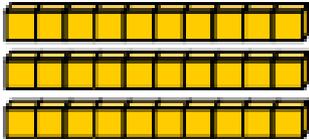
Three hundred and fifty-four

Five hundred and thirty-two

Three hundred and fifty-five

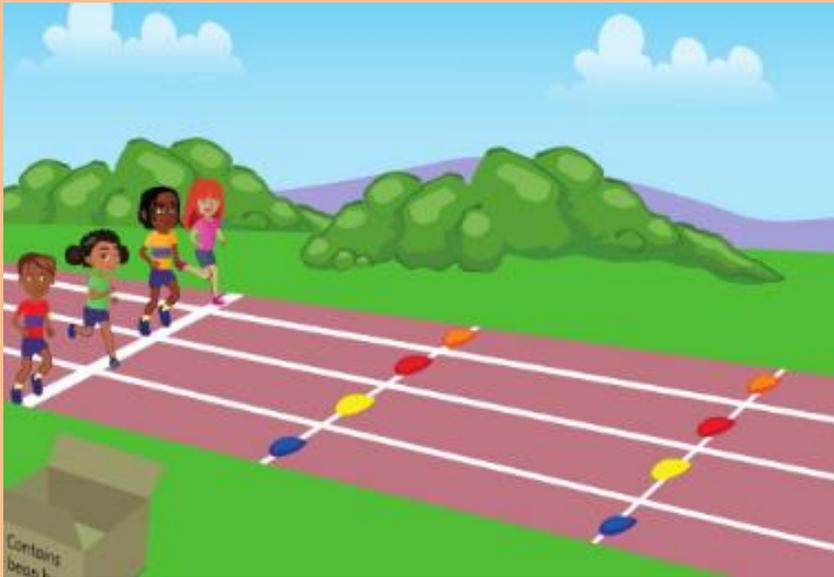
Two hundred and twenty-three

Answers

Dividing a 2 digit number by a 1 digit number

- 1 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?



- a) There are 56 bean bags altogether.
There are 4 running lanes.

$$56 \div 4 = ?$$

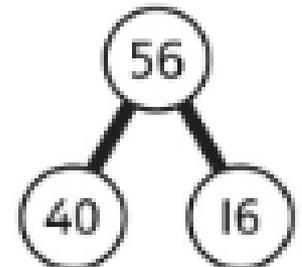


$$40 \div 4 = 10$$

$$16 \div 4 = 4$$

$$\text{So, } 56 \div 4 = 14$$

There are 14 bean bags in each lane.

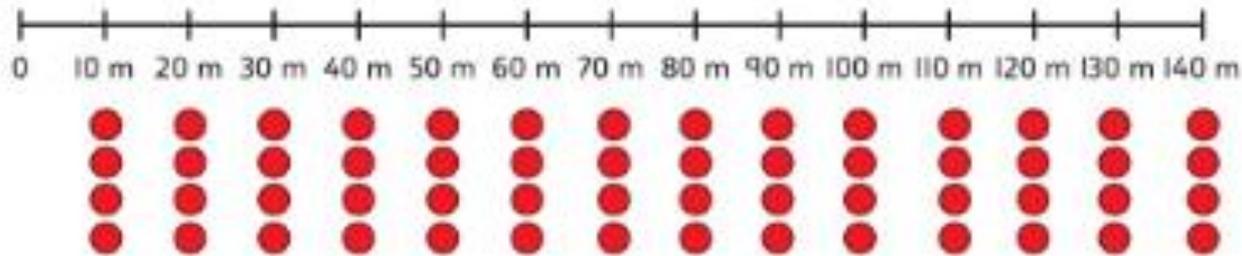


Dividing a 2 digit number by a 1 digit number

- b) There is a bean bag every 10 metres in each lane.
How far is the furthest bean bag away from the start line?



The first bean bag is 10 metres away from the start line.
The bean bags are then 10 metres apart.



There are 14 bean bags in each lane.
There is one bean bag every 10 metres.
 $14 \times 10 = 140$

The furthest bean bag is 140 metres
away from the start line.

I thought the answer
was 130 metres. I put
the first bean bag at
the start.



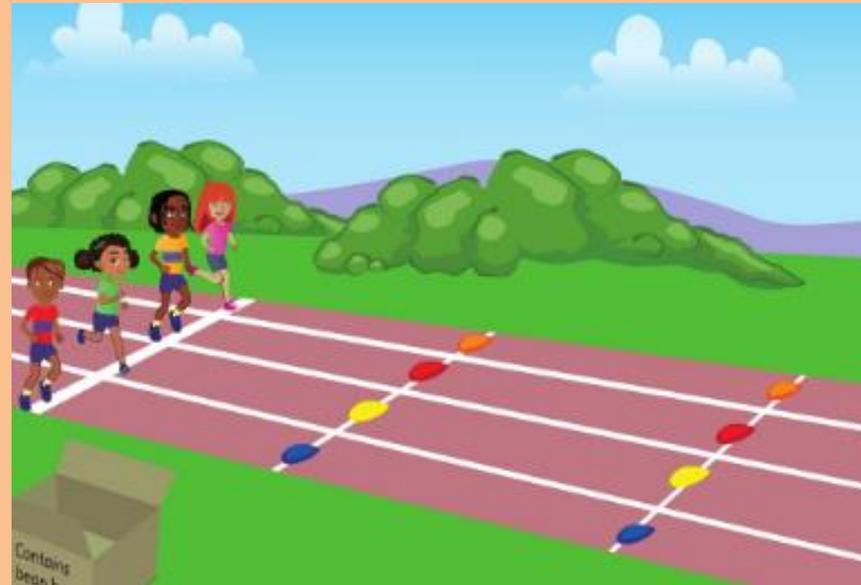
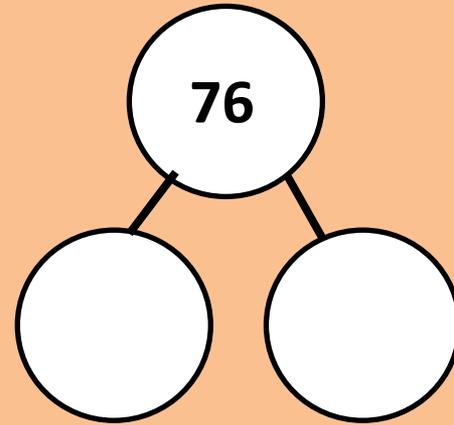
Dividing a 2 digit number by a 1 digit number

The layout of the race has been increased.

This time, there are 76 bean bags being used, but still over 4 lanes.

How many beanbags are there in each lane this time?

Follow the same method as before...



Dividing a 2 digit number by a 1 digit number

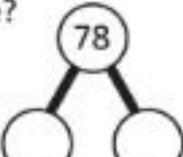
Answer from previous question: $76 \div 4 = 19$

Now, another race...

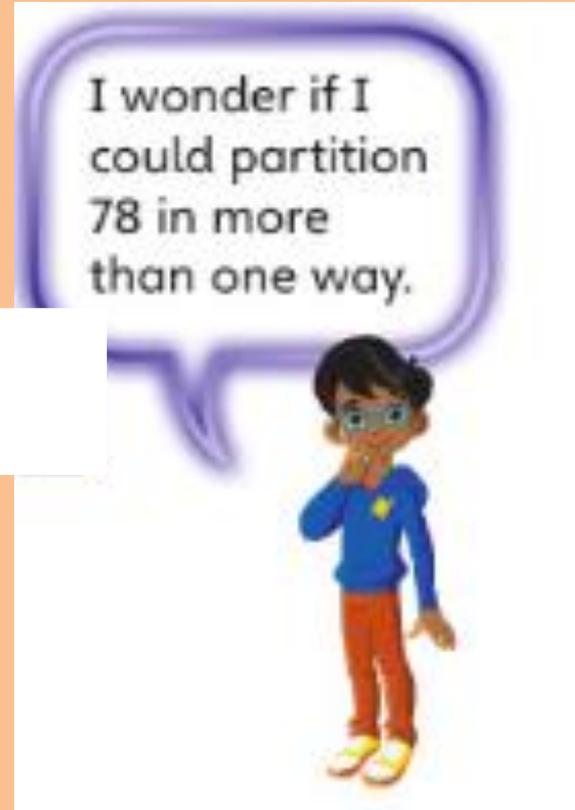
78 cones are divided equally across 6 lanes.



How many cones are in each lane?



So, $78 \div 6 = \square$



$\square \div 6 = \square$ $\square \div 6 = \square$

There are \square cones in each lane.

Dividing a 2 digit number by a 1 digit number

Success Criteria

- Read question/calculation carefully
- Look at divisor (number you are sharing by)
- Partition the dividend (number that needs to be shared)
- Recombine (add together) subtotals to find final answer

Dividing a 2 digit number by a 1 digit number

Answer from previous question: $78 \div 6 = 13$

Fluency

Work out the following calculations using the same method of partitioning:-

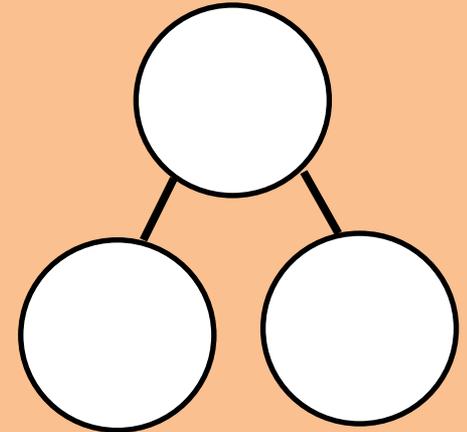
1) $35 \div 5$

2) $48 \div 3$

3) $64 \div 4$

4) $84 \div 6$

5) $84 \div 7$



Dividing a 2 digit number by a 1 digit number

Fluency answers

1) $35 \div 5 = 7$ $48 \div 3 = 16$

$64 \div 4 = 16$

2) $84 \div 6 = 14$ $84 \div 7 = 12$

Reasoning

Zac is decorating cakes.

He has 72 cherries.

He puts 3 cherries on top of each cake and uses all the cherries.



He then packs all of the cakes into boxes of 4.



How many boxes of cakes does he pack?

I think I need to do more than one division. I will do one at a time though.



Dividing a 2 digit number by a 1 digit number

How did you do?

First you need to find out how many cakes there are?

Each cake has 3 cherries on top and there are 72 cherries, so...

Step 1) First we work out $72 \div 3 = 24$ because there are 24 cakes with 3 cherries on top of each of them.

Step 2) So now there are 24 cakes and each box can hold 4 cakes so we work out $24 \div 4 = 6$ which means there are 6 boxes of cakes!