



19.01.21

IALT: divide 2 digit numbers by 1 digit using formal methods.

$$6 \times 3 =$$

$$6 \times 7 =$$

$$__ \times 6 = 6$$

$$__ \times 6 = 18$$

$$__ \times 6 = 12$$

$$__ \times 6 = 30$$

$$24 \div 6 =$$

$$36 \div 6 =$$

$$42 \div 6 =$$

$$54 \div 6 =$$

$$0 \div 6 =$$

Challenge:

There are 12 sweets.

3 brothers share them- how many do they get each?

Their 3 sisters come along.

Now they all have to share the 12.

How many do they get each?

What do you notice?

<https://www.topmarks.co.uk/maths-games/daily10>



19.01.21

IALT: divide 2 digit numbers by 1 digit using formal methods.

$6 \times 3 = 18$

$6 \times 7 = 42$

$__ \times 6 = 6$ 1

$__ \times 6 = 18$ 3

$__ \times 6 = 12$ 2

$__ \times 6 = 30$ 5

$24 \div 6 = 4$

$36 \div 6 = 6$

$42 \div 6 = 7$

$54 \div 6 = 9$

$0 \div 6 = 0$

Challenge:

There are 12 sweets.

3 brothers share them- how many do they get each? 4

Their 3 sisters come along.

Now they all have to share the 12.

How many do they get each? 2

What do you notice?

They get half of the amount.

<https://www.topmarks.co.uk/maths-games/daily10>

Daily Counting

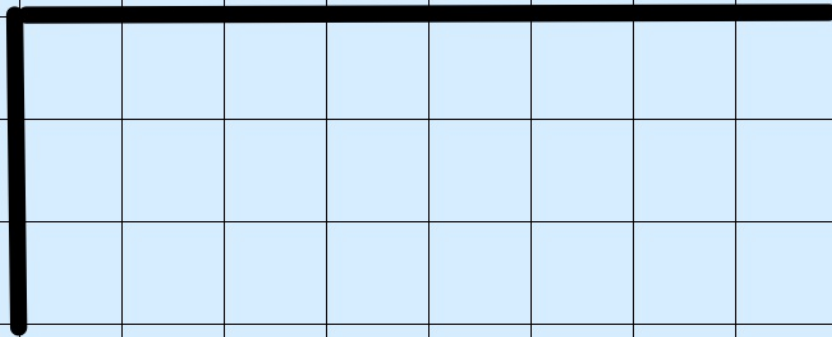
8

6

7



Recap: What is the bus stop method? Is it a formal or informal method? Can you give me an example?



Quotient

Divisor

Dividend

Try and label the different parts...
(answers are on the next page)

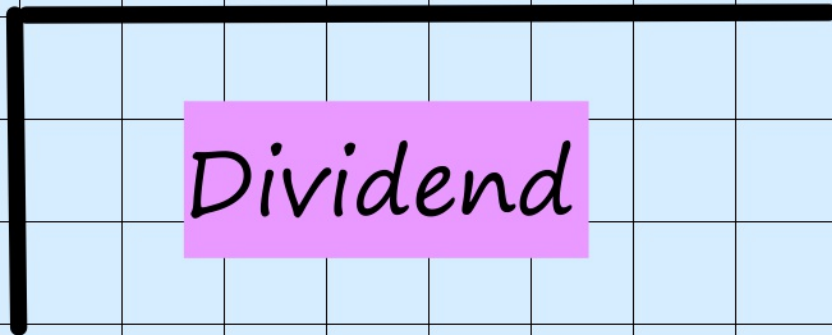
Recap: What is the bus stop method? Is it a formal or informal method? Can you give me an example?

Quotient

Formal method

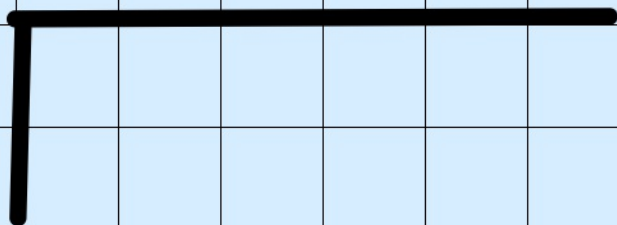
Divisor

Dividend



$$88 \div 4 =$$

Try to lay this question out in the formal method below. Can you also label the different parts? (quotient, divisor and dividend) You can always use place value counters to help you.



$$88 \div 4 =$$

Answer:

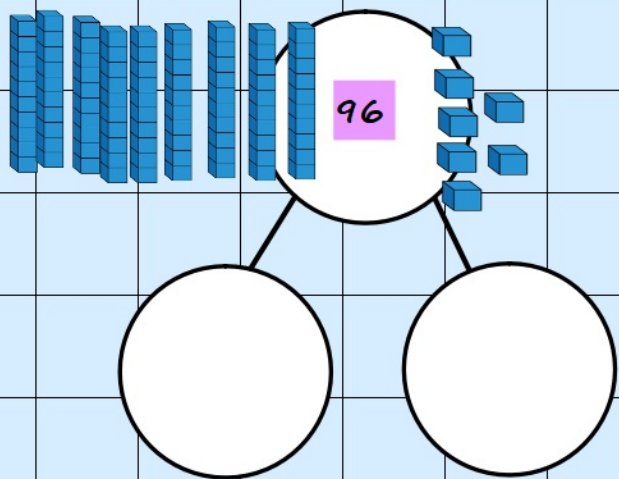
Try to lay this question out in the formal method below. Can you also label the different parts? (quotient, divisor and dividend) You can always use place value counters to help you.

		22	Quotient
Divisor	4	88	Dividend

$$96 \div 4 =$$

What is different about this question? Can we still divide?

Sometimes we have to divide numbers that are tricky...
Let's start by partitioning the number to help us.



Does 4 go into 90?

Does 4 go into 6?

What is the next 10 before 90?

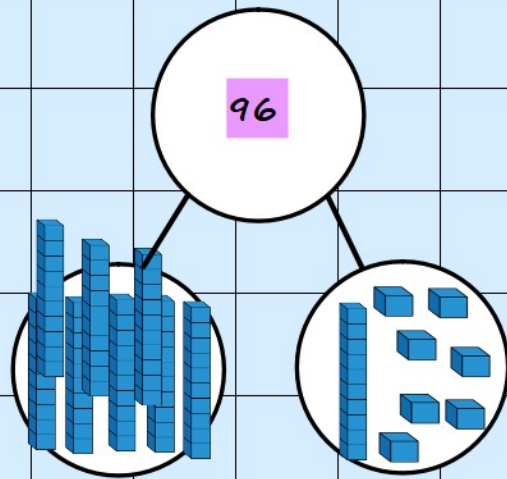
Does 4 go into 80?

Does 4 go into 16?

$$96 \div 4 =$$

What is different about this question? Can we still divide?

Sometimes we have to divide numbers that are tricky...
Let's start by partitioning the number to help us.



Does 4 go into 90? No!

Does 4 go into 6? No!

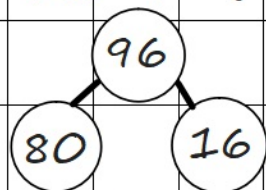
What is the next 10 before 90? 80

Does 4 go into 80? Yes it does, 20 times

Does 4 go into 16? Yes it does, 4 times

To use our formal method we would lay out the question like this...

$$96 \div 4 =$$



1. NUMBER SENTENCE

\div	80	16
4	20	4

3. Grid method

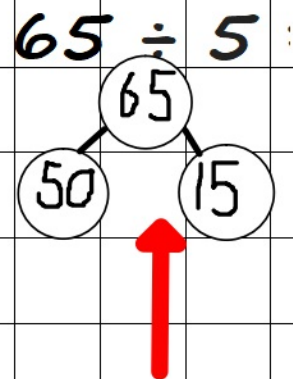
$$20 + 4 = 24$$

4. Add answer

2. Show me how you partitioned

PARTITION
DIVIDE
ADD

When you are doing your questions, layout your work like this:



1. NUMBER SENTENCE

\div	50	15
5	10	3

$10 + 3 = 13$

3. Grid method

4. Add answer

2. Show me how you partitioned

PARTITION
DIVIDE
ADD

TASK: divide these 2-digit numbers

$$26 \div 2 =$$

$$38 \div 2 =$$

$$32 \div 2 =$$

$$36 \div 2 =$$

$$34 \div 2 =$$

$$42 \div 3 =$$

$$65 \div 5 =$$

$$48 \div 3 =$$

$$45 \div 3 =$$

$$52 \div 4 =$$

$$65 \div 5 =$$

$$72 \div 3 =$$

$$84 \div 7 =$$

$$93 \div 4 =$$

$$73 \div 3 =$$

burning chilli

PARTITION
DIVIDE
ADD

PARTITION
DIVIDE
ADD

PARTITION
DIVIDE
ADD

Answers:

$$26 \div 2 = 13$$

$$38 \div 2 = 19$$

$$32 \div 2 = 16$$

$$36 \div 2 = 18$$

$$34 \div 2 = 17$$

$$42 \div 3 = 14$$

$$65 \div 5 = 13$$

$$48 \div 3 = 16$$

$$45 \div 3 = 15$$

$$52 \div 4 = 13$$

$$75 \div 5 = 15$$

$$72 \div 3 = 24$$

$$84 \div 7 = 12$$

$$93 \div 4 = 23 \text{ r}1$$

$$73 \div 3 = 24 \text{ r}1$$

PARTITION

DIVIDE

ADD

PARTITION

DIVIDE

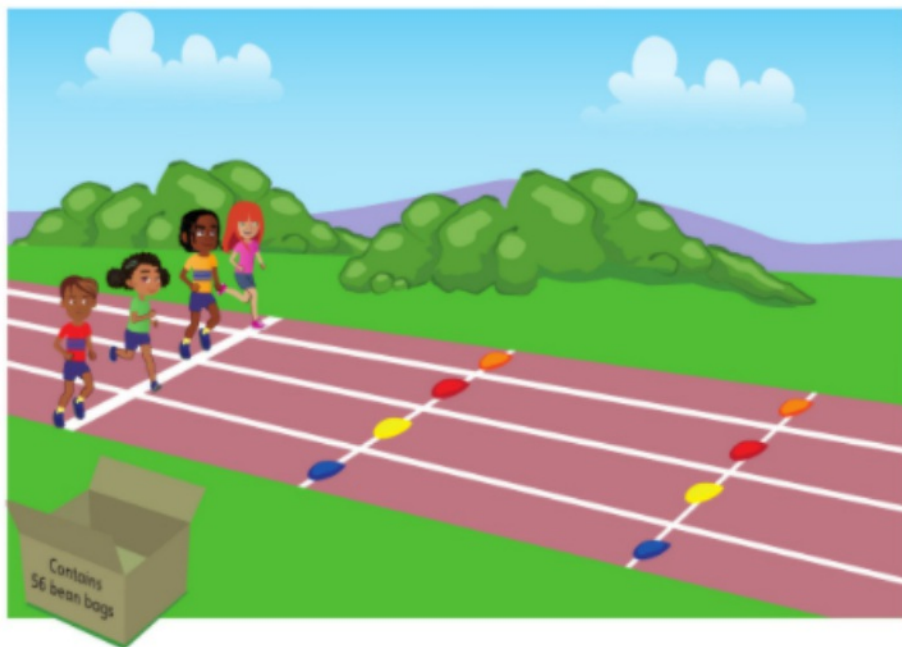
ADD

PARTITION

DIVIDE

ADD

Mild:



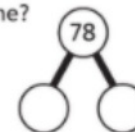
- 1 a) 56 bean bags have been used. There is an equal number of bean bags in each lane. How many bean bags are in each lane?
- b) There is a bean bag every 10 metres in each lane. How far is the furthest bean bag away from the start line?

Spicy:

- 1 78 cones are divided equally across 6 lanes.



How many cones are in each lane?



So, $78 \div 6 = \square$

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

There are \square cones in each lane.

I wonder if I could partition 78 in more than one way.



- 2 There are 76 children at the junior sports day. There are 4 teams. Each team has the same number of children. How many children are in each team?

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

Answers:

Mild:

a) There are 56 bean bags altogether.

There are 4 running lanes.

$$56 \div 4 = ?$$

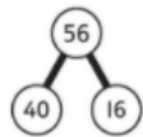


$$40 \div 4 = 10$$

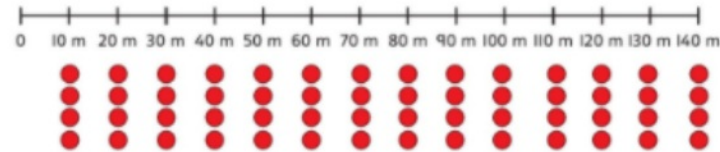
$$16 \div 4 = 4$$

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

There are 14 bean bags in each lane.



b) 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.



Spicy:

1 78 cones are divided equally across 6 lanes.



How many cones are in each lane?

78

60 18

$$\text{So, } 78 \div 6 = 13$$

$$60 \div 6 = 10 \quad 18 \div 6 = 3$$

There are 13 cones in each lane.

I wonder if I could partition 78 in more than one way.



2 There are 76 children at the junior sports day.

There are 4 teams.

Each team has the same number of children.

How many children are in each team?

$$76 \div 4 = 19$$