IALT: divide 2 digit numbers by 1 digit.

$582 + 6 =$

$451 + 40 =$

$855 - 700 =$

$4 \times 500 =$

$30 \times 5 =$

$457 \times 10 =$

$2 \times 6 \times 8$

$\dfrac{2}{8} + \dfrac{4}{8} =$

Recap Challenge

Which of these shapes has a perimeter of 20 cm?

A Square with length 5 cm

B Rectangle with length 10 cm and width 2 cm

C Square with length 10 cm
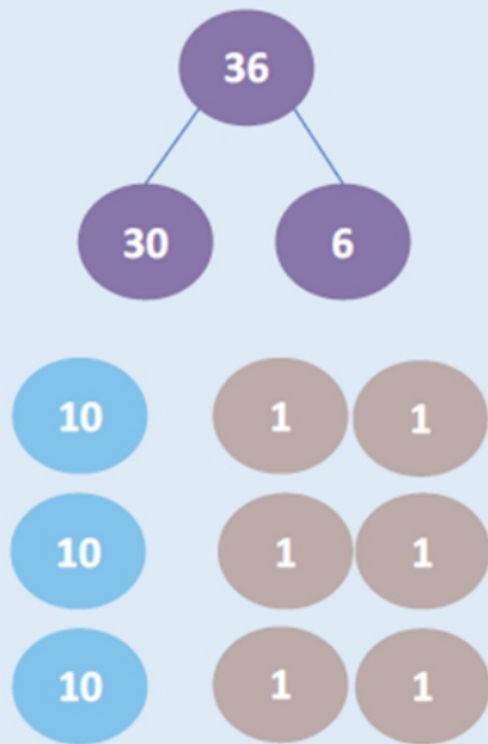
D Rectangle with length 12 cm and width 8 cm

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

Daily Counting

10 8 7

Leanna solves 36 ÷ 3 like this.

Step 1: Build the number

36
30   6

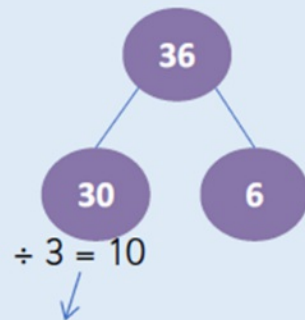10   1   1
10   1   1
10   1   1

Informal Methods

First we partition 36 into tens and ones.

Then with the counters we will mark how many is in each place value.

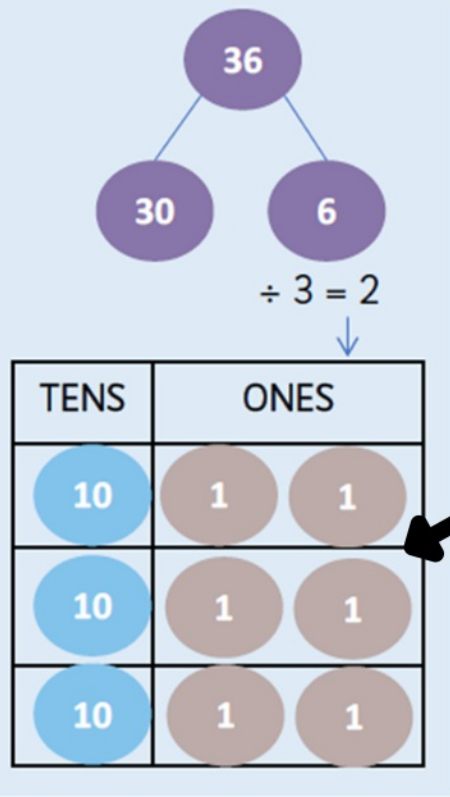# Leanna solves 36 ÷ 3 like this.

Step 2: Share the tens

```
        36
       /  \
      30    6
```

÷ 3 = 10

TENS	ONES
10	
10	
10	

Now its easier to divide:

30 ÷ 10 = 3

When 30 goes into 10 3 times.

Leanna solves 36 ÷ 3 like this.

Step 3: Share the ones

```
        36
       /    \
     30      6
          ÷ 3 = 2
            ↓
```

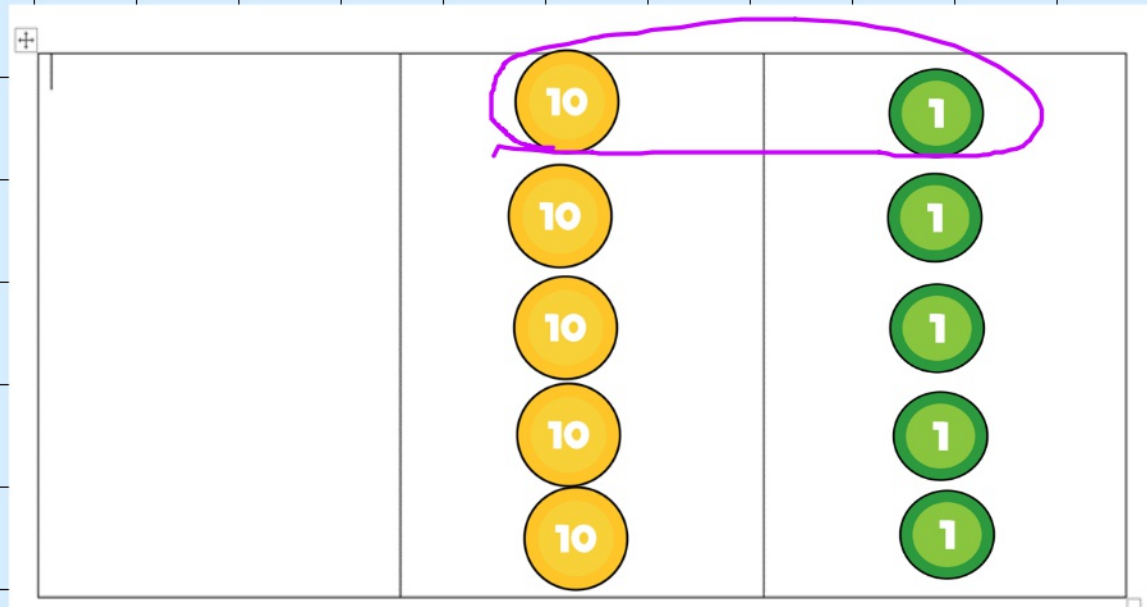| TENS	ONES
10	1 1
10	1 1
10	1 1

We do exactly the same for the units.

6 ÷ 3 = 2

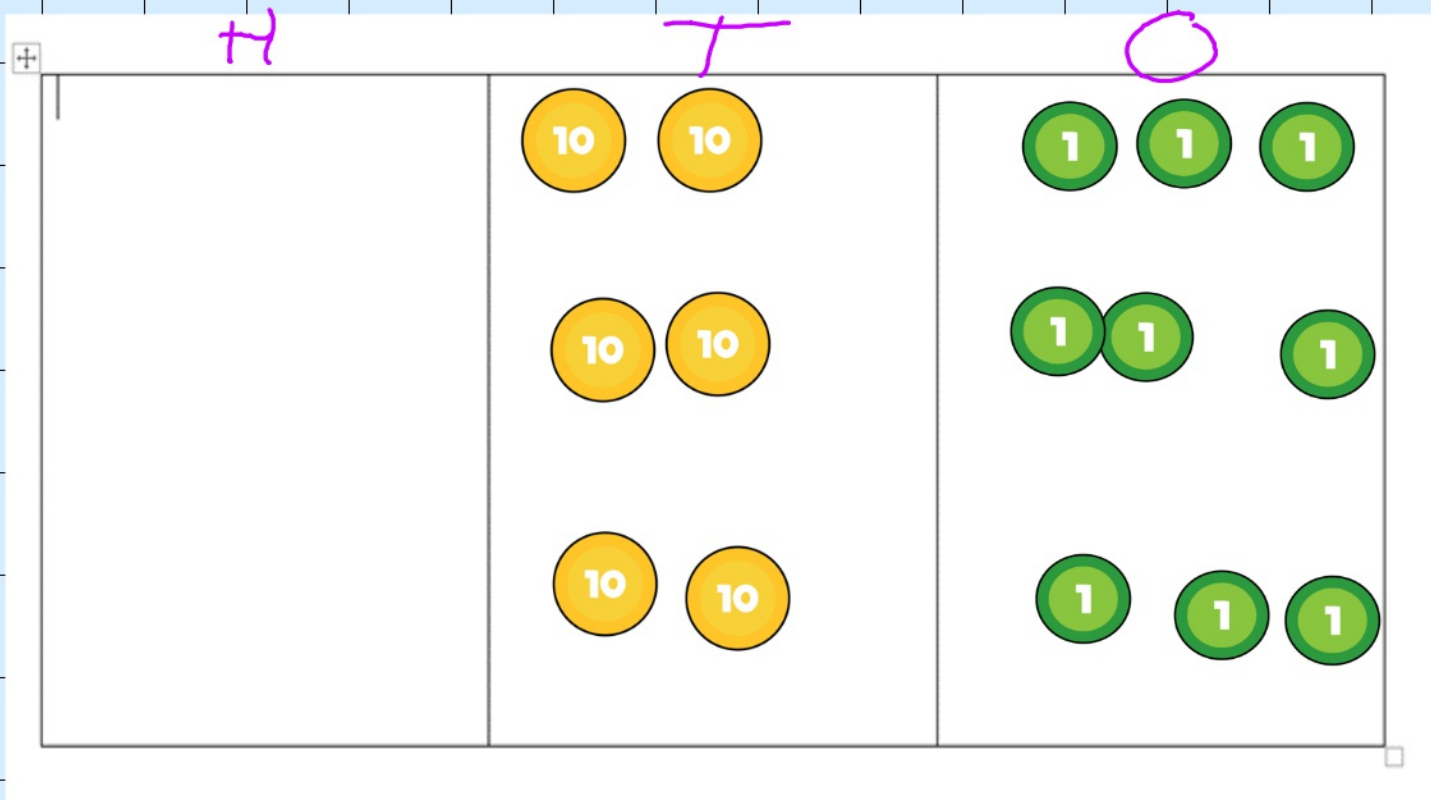How many times to 3 go into 6? 2!!

Use this approach to solve: 55 ÷ 5

55 ÷ 5=

I've started it off, you finish...

69 ÷ 3

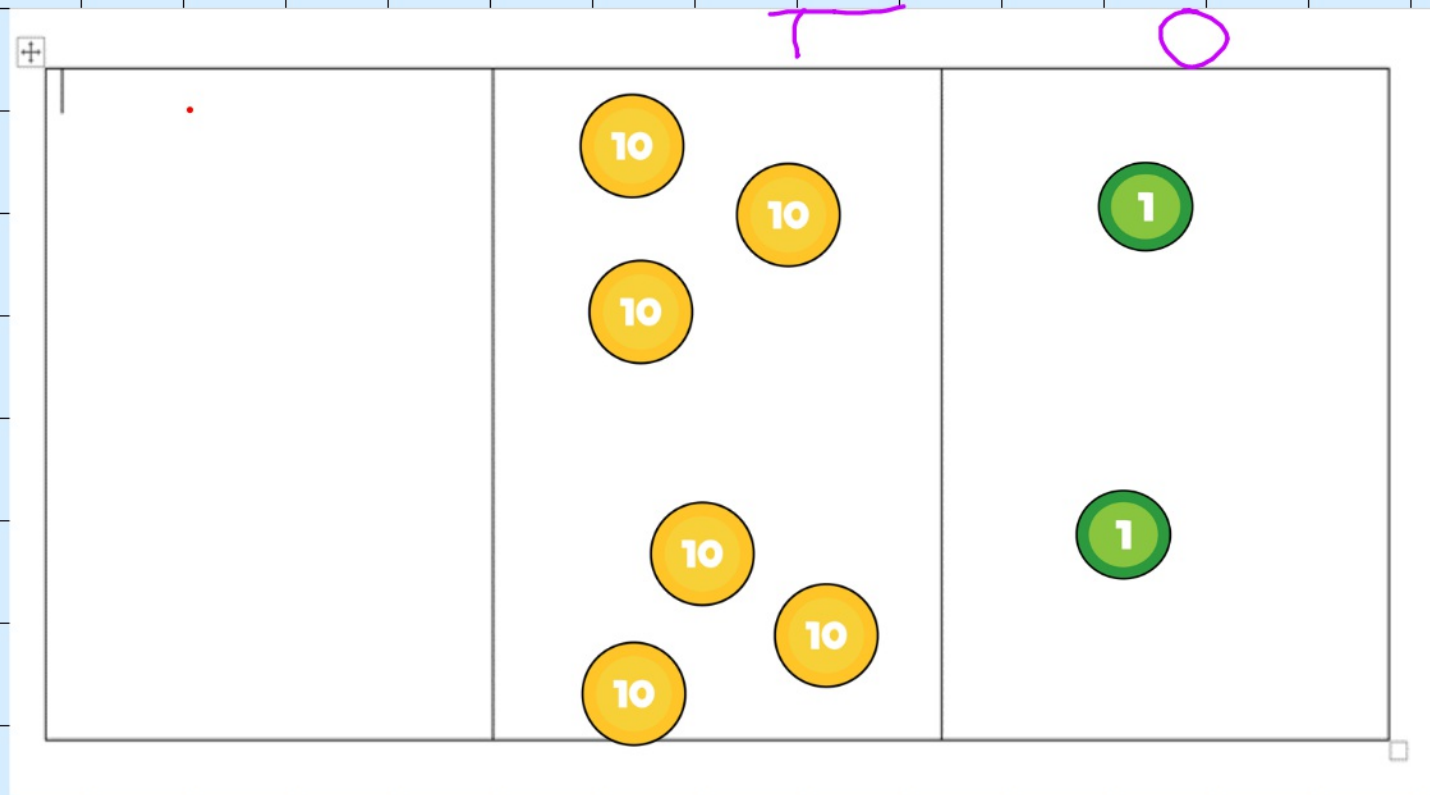Now try this one... How many are left in one group?

H   T   O

H	T	O
	10 10	1 1 1
	10 10	1 1 1
	10 10	1 1 1

$62 \div 2$

Task one: In your books represent these sums with tables and draw the counters:

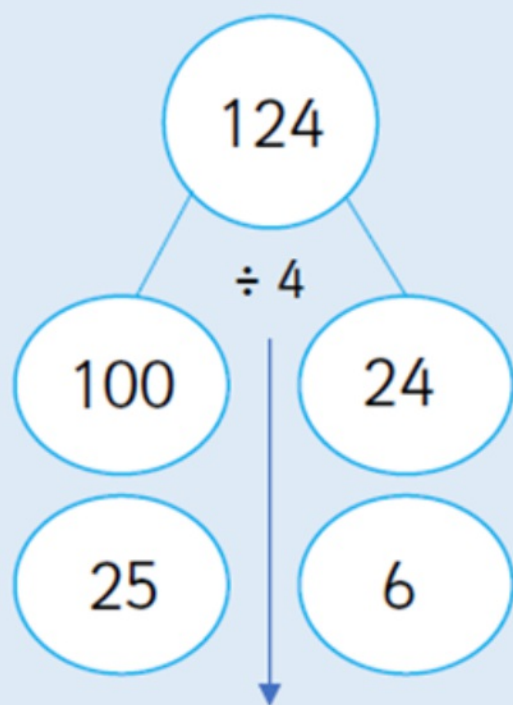$36 \div 3 =$

$96 \div 3 =$

$48 \div 2 =$

$369 \div 3 =$

$888 \div 8 =$

$903 \div 3 =$

Ones
Tens
Hundreds

Answers:

$36 \div 3 = 12$

$96 \div 3 = 32$

$48 \div 2 = 24$

$369 \div 3 = 123$

$888 \div 8 = 111$

$903 \div 3 = 301$

Ones
Tens
Hundreds
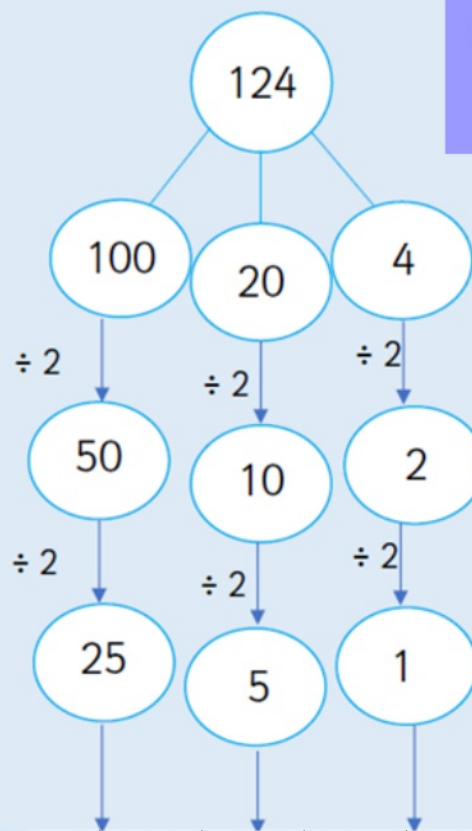
How has this been partitioned?

How is this different than the last model?

How is this similar to the last model?

Task two in books:

Mild:

$22 \div 2 =$

$28 \div 2 =$

$30 \div 3 =$

$40 \div 4 =$

$55 \div 5 =$

$60 \div 6 =$

$48 \div 2 =$

Represent informal method.

Spicy:

$66 \div 6 =$

$33 \div 3 =$

$39 \div 3 =$

$64 \div 2 =$

$48 \div 4 =$

$22 \div 2 =$

$42 \div 2 =$

Formal representation

Hot:

$777 \div 7 =$

$846 \div 2 =$

$486 \div 2 =$

$88 \div 8 =$

$505 \div 5 =$

$848 \div 4 =$

Formal representation

Extension: Explain how to represent division in the bus stop method.

You represent the division by.......

Answers:

Mild:

22 ÷ 2 =   11

28 ÷ 2 =   14

30 ÷ 3 =   10

40 ÷ 4 =   10

55 ÷ 5 =   11

60 ÷ 6 =   10

48 ÷ 2 =   24

Represent informal method.

Spicy:

66 ÷ 6 =   11

33 ÷ 3 =   11

39 ÷ 3 =   13

64 ÷ 2 =   32

48 ÷ 4 =   12

22 ÷ 2 =   11

42 ÷ 2 =   21

Formal representation

Hot:

777 ÷ 7 =   111

846 ÷ 2 =   423

486 ÷ 2 =   243

88 ÷ 8 =   11

505 ÷ 5 =   101

848 ÷ 4 =   212

Formal representation

Extension: Explain how to represent division in the bus stop method.

You represent the division by.......
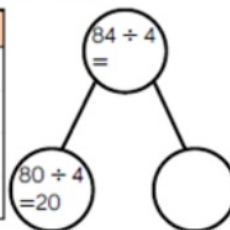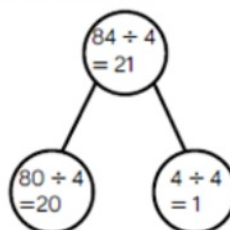
Jack is dividing 84 by 4 using place value counters.

First, he divides the tens.

Tens	Ones
10 10	
10 10	
10 10	
10 10	

$84 \div 4 =$

$80 \div 4 = 20$

Then, he divides the ones.

Tens	Ones
10 10	1
10 10	1
10 10	1
10 10	1

$84 \div 4 = 21$

$80 \div 4 = 20$

$4 \div 4 = 1$

Use Jack's method to calculate:

$69 \div 3$ $88 \div 4$ $96 \div 3$

Spicy:

Eva has 96 sweets.
She shares them into equal groups.
She has no sweets left over.
How many groups could Eva have shared her sweets into?

Jack is dividing 84 by 4 using place value counters.

First, he divides the tens.   Then, he divides the ones.

Tens	Ones

$84 \div 4 =$

$80 \div 4 = 20$

Tens	Ones

$84 \div 4 = 21$

$80 \div 4 = 20$ $4 \div 4 = 1$

Use Jack's method to calculate:

$69 \div 3$ $88 \div 4$ $96 \div 3$

23   22   32

Spicy:

Eva has 96 sweets.
She shares them into equal groups.
She has no sweets left over.
How many groups could Eva have shared her sweets into?

3 or 6