

Wednesday - maths

LO To divide 2 digits by 1 digit

Power up

Dividing a 2-digit number
by a 1-digit number ①



Discover



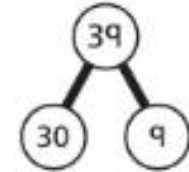
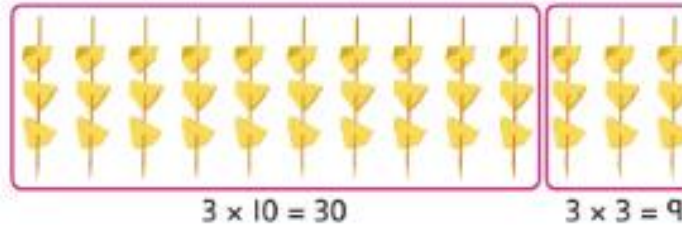
- ① a) 3 pieces of pineapple can fit on to each stick.
How many full sticks can be made?
- b) The grapes are shared equally between 4 sticks.
How many grapes will be on each stick?



LO To divide 2 digits by 1 digit

Power up answer

- a) There are 39 pieces of pineapple. Each stick can hold 3 pieces of pineapple.



30 pieces of pineapple $\div 3 = 10$ sticks

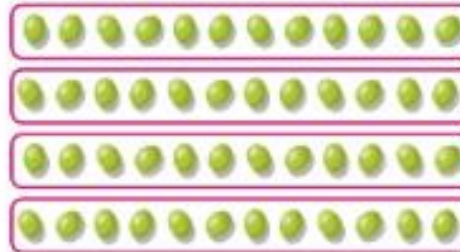
9 pieces of pineapple $\div 3 = 3$ sticks

39 pieces of pineapple $\div 3 = 13$ sticks

13 full sticks can be made.



- b) 48 grapes are shared equally between 4 sticks.



48 can be split into 4 equal groups.

$$48 \div 4 = 12$$

Each group contains 12 grapes.

There will be 12 grapes on each stick.

I did $48 \div 2 = 24$ and then $24 \div 2 = 12$, because I know that dividing by 4 is the same as halving twice.



Remember that $4 \div 4 = 1$,
so $40 \div 4 = 10$.

LO To divide 2 digits by 1 digit

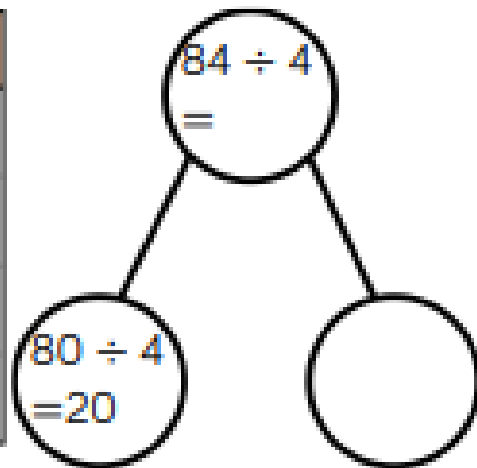
Jack is dividing 84 by 4 using place value counters.



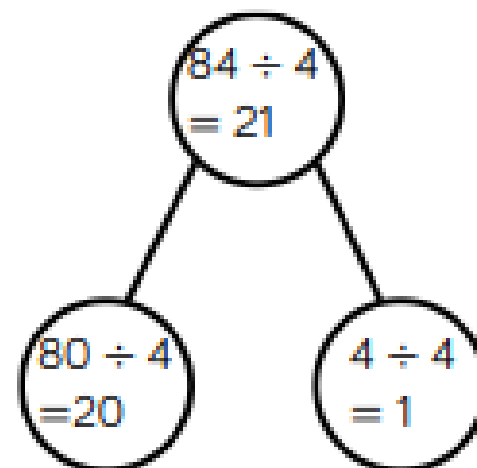
First, he divides the tens.

Then, he divides the ones.

Tens	Ones




Tens	Ones



Use partitioning to separate your numbers into place value columns. Then use the part-whole method to record each division sentence and finally add the two answers together.

LO To divide 2 digits by 1 digit

Jack is dividing 84 by 4 using place value counters. 

10 10 10 10 10 10 10 10 1 1 1 1

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

Tens	Ones
10 10	
10 10	
10 10	
10 10	

$84 \div 4 =$

$80 \div 4 = 20$

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

$84 \div 4 = 21$

$80 \div 4 = 20$

$4 \div 4 = 1$

Fluency

- Use this method to work out

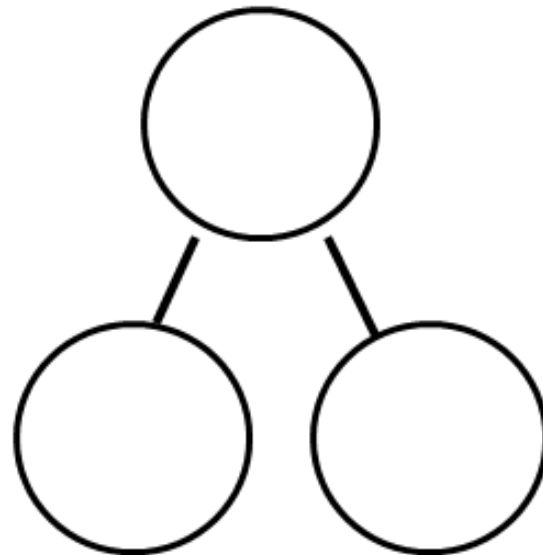
$$69 \div 3$$

$$88 \div 4$$

$$96 \div 3$$

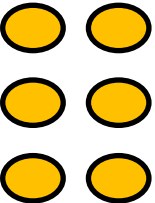
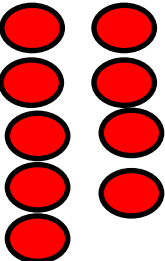
LO To divide 2 digits by 1 digit
 $69 \div 3$ Draw the tables to help you to
partition your numbers and group into
3 equal parts

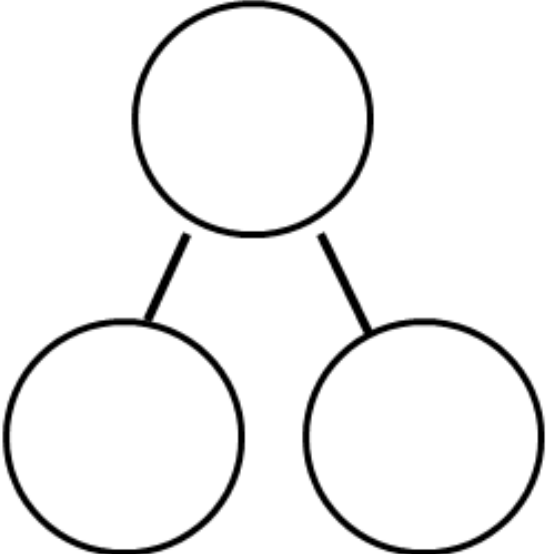
Tens	Ones



LO To divide 2 digits by 1 digit

69 ÷ 3 answer- **how did you do?**

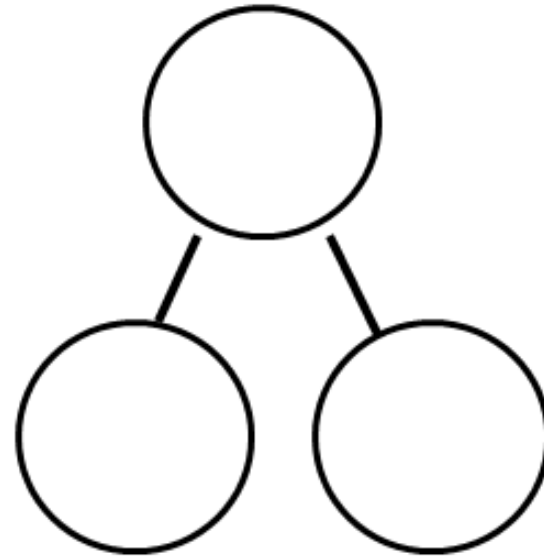
Tens	Ones
	



LO To divide 2 digits by 1 digit

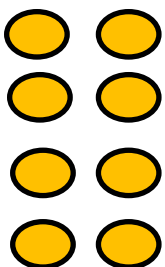
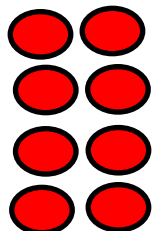
$88 \div 4$ Draw the tables to help you to partition your numbers and group into 4 equal parts

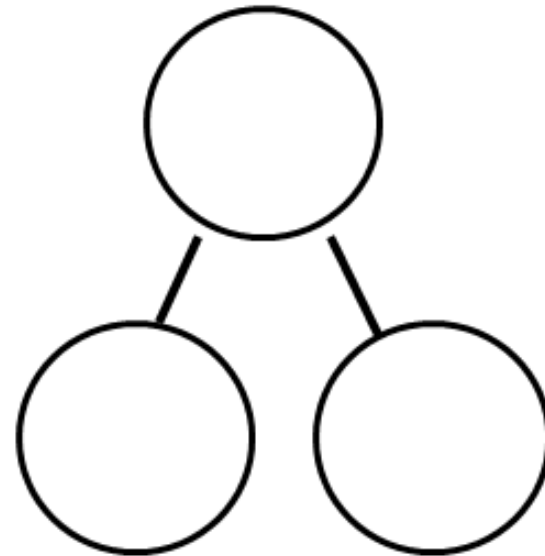
Tens	Ones



LO To divide 2 digits by 1 digit

88 ÷ 4 – how did you do?

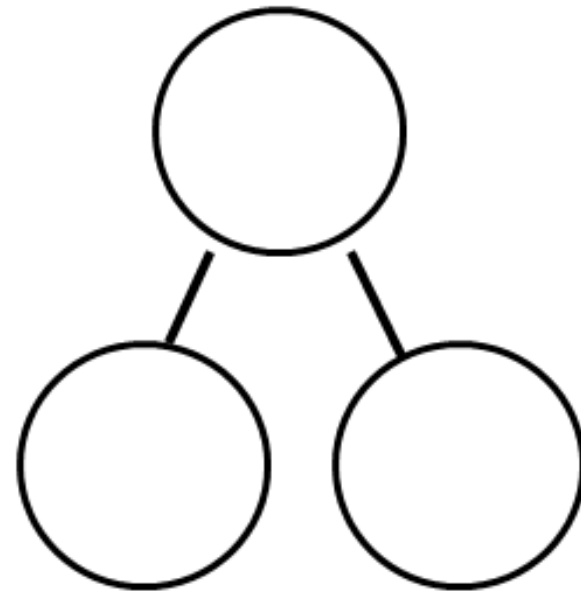
Tens	Ones
	



LO To divide 2 digits by 1 digit

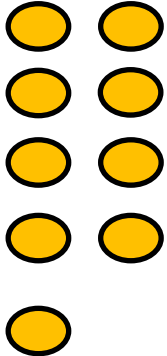
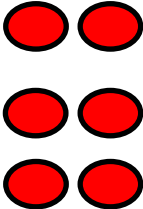
96 ÷ 3 Draw the tables to help you to partition your numbers and group into 3 equal parts

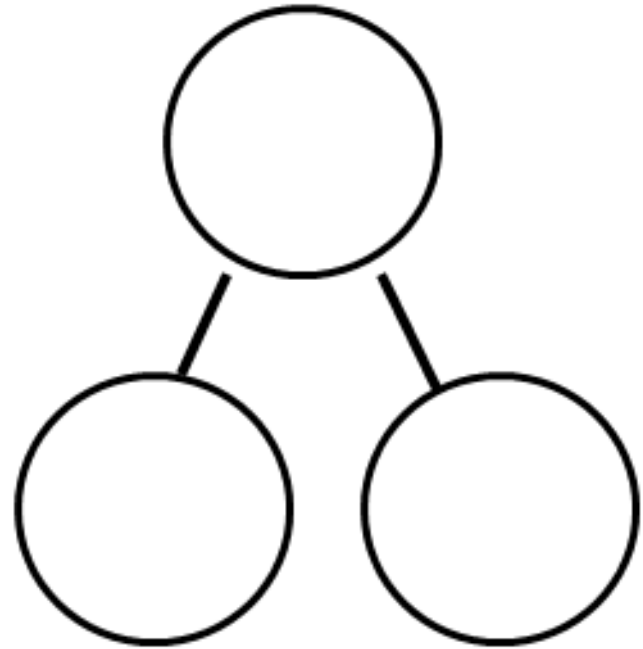
Tens	Ones



LO To divide 2 digits by 1 digit

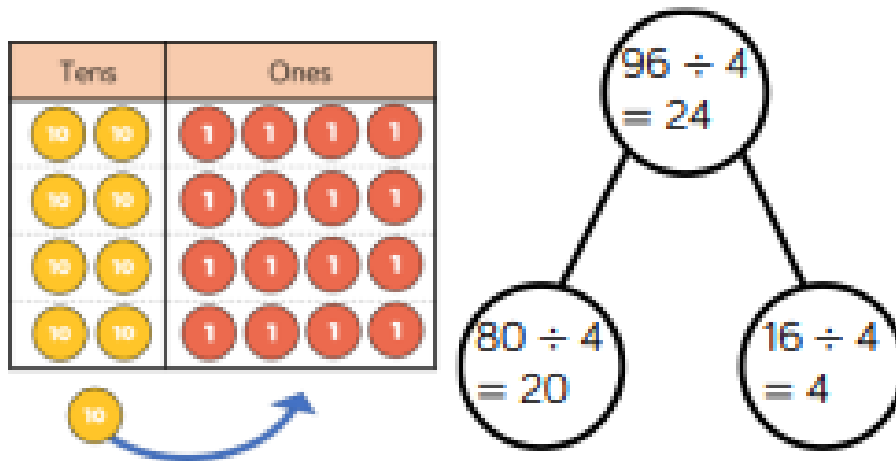
96 ÷ 3 - **how did you do?**

Tens	Ones
	



LO To divide 2 digits by 1 digit

Rosie is calculating 96 divided by 4 using place value counters. First, she divides the tens. She has one ten remaining so she exchanges one ten for ten ones. Then, she divides the ones.



Use Rosie's method

to solve

$$65 \div 5$$

$$75 \div 5$$

$$84 \div 6$$

LO To divide 2 digits by 1 digit

Check your answers

$$65 \div 5 = 13$$

$$75 \div 5 = 15$$

$$84 \div 6 = 14$$

LO To divide 2 digits by 1 digit

Reasoning

Dora is calculating $72 \div 3$

Before she starts, she says the calculation will involve an exchange.

Do you agree?

Explain why.

Use $<$, $>$ or $=$ to complete the statements.

$$69 \div 3 \bigcirc 96 \div 3$$

$$96 \div 4 \bigcirc 96 \div 3$$

$$91 \div 7 \bigcirc 84 \div 6$$

LO To divide 2 digits by 1 digit

Problem Solving

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?

LO To divide 2 digits by 1 digit

Problem Solving answers – **how did you do?**

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?

Possible answers

$$96 \div 1 = 96$$

$$96 \div 2 = 48$$

$$96 \div 3 = 32$$

$$96 \div 4 = 24$$

$$96 \div 6 = 16$$

$$96 \div 8 = 12$$

LO To divide 2 digits by 1 digit

Reasoning answer – **how did you do?**

Dora is calculating $72 \div 3$
Before she starts, she says the calculation will involve an exchange.

Do you agree?
Explain why.

Dora is correct because 70 is not a multiple of 3 so when you divide 7 tens between 3 groups there will be one remaining which will be exchanged.

Use $<$, $>$ or $=$ to complete the statements.

$$69 \div 3 \bigcirc 96 \div 3$$

$$96 \div 4 \bigcirc 96 \div 3$$

$$91 \div 7 \bigcirc 84 \div 6$$

$<$

$<$

$<$