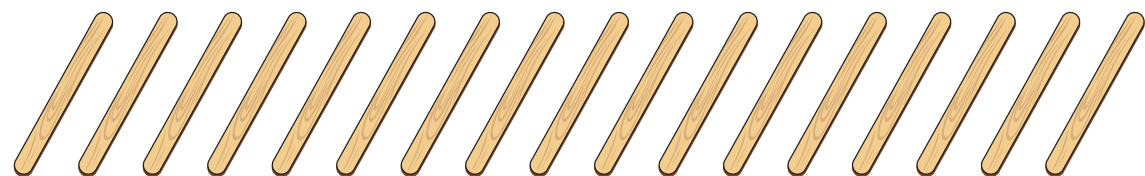
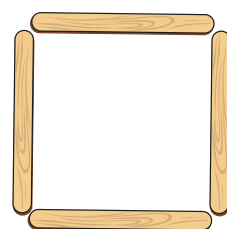


Divide 2-digits by 1-digit (3)

- 1 Mo has these lolly sticks.



He uses them to make squares.
How many squares can Mo make?



Complete the sentences.

There are 17 lolly sticks.

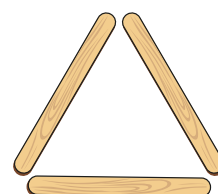
There are groups of 4

There is lolly stick remaining.

$17 \div 4 =$ remainder

Mo can make squares.

- 2 Mo now uses the lolly sticks to make triangles.
How many triangles can Mo make?



Complete the sentences.



There are 17 lolly sticks.

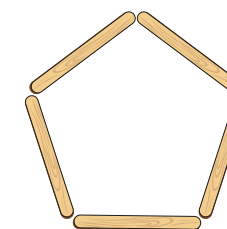
There are groups of 3

There are lolly sticks remaining.

$17 \div 3 =$ remainder

Mo can make triangles.

- 3 Finally, Mo uses the lolly sticks to make pentagons.
How many pentagons can Mo make?



Complete the sentences.

There are 17 lolly sticks.

There are groups of 5

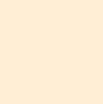
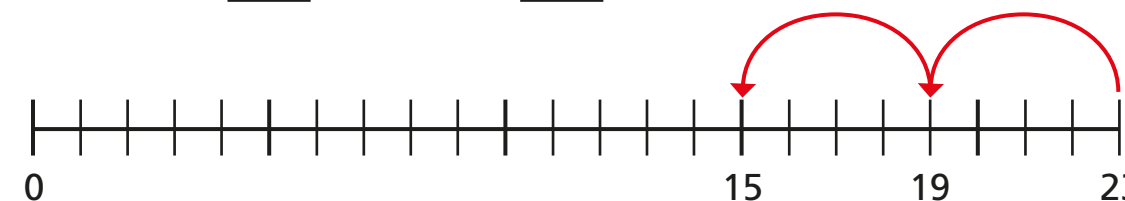
There are lolly sticks remaining.

$17 \div 5 =$ remainder

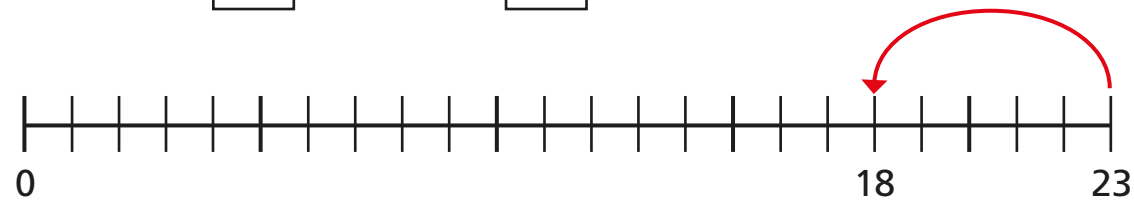
Mo can make pentagons.

- 4 Use repeated subtraction to complete the divisions.
Use the number lines to help you.

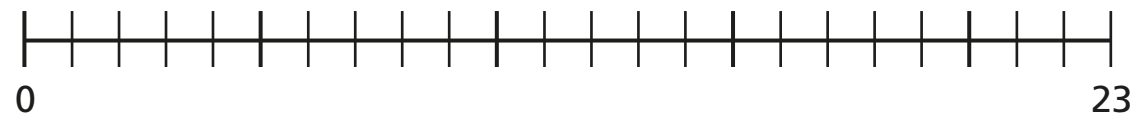
a) $23 \div 4 =$ remainder



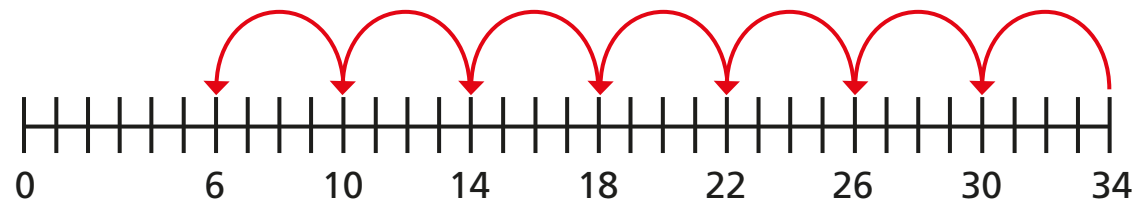
b) $23 \div 5 = \square$ remainder \square



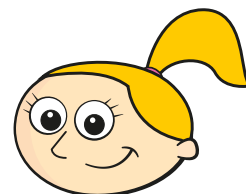
c) $23 \div 3 = \square$ remainder \square



- 5 Eva works out $34 \div 4$



There is a remainder of 6



Is Eva correct? _____

How do you know?



- 6 Complete the calculations.

a) $29 \div \square = 4$ remainder 5

c) $29 \div \square = 14$ remainder 1

b) $29 \div \square = 4$ remainder 1

- 7 How do you know there is no remainder when 75 is divided by 5?

Without doing the division, what is the remainder when 76 is divided by 5? \square

- 8 Use place value counters and a place value chart to work out the divisions.

a) $87 \div 4 = \square$ remainder \square

b) $77 \div 3 = \square$ remainder \square

c) $74 \div 5 = \square$ remainder \square

- 9 Teddy has fewer than 60 marbles but more than 40. When he shares them equally into 3 pots he has no remainders. When he shares them equally into 4 pots he has remainder 3. When he shares them equally into 5 pots he has remainder 1. How many marbles could Teddy have?



Divide 2-digits by 1-digit (2)

- 1 Whitney is working out $49 \div 4$ using a place value chart.

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

1

- a) Talk about Whitney's method with a partner.
b) Why is there one counter left over?

- c) Complete the division.

$$49 \div 4 = \boxed{}$$

- d) Use place value counters to complete the divisions.

$$50 \div 4 = \boxed{} \qquad 51 \div 4 = \boxed{}$$

What do you notice?

- 2 Complete the divisions.

a) $47 \div 3 = \boxed{}$

b) $26 \div 5 = \boxed{}$

c) $89 \div 4 = \boxed{}$

d) $32 \div 5 = \boxed{}$

e) $49 \div 6 = \boxed{}$

f) $47 \div 4 = \boxed{}$

g) $74 \div 3 = \boxed{}$

h) $81 \div 7 = \boxed{}$

- 3 Complete the divisions.

a) $36 \div 4 = \boxed{}$

$37 \div 4 = \boxed{}$

$38 \div 4 = \boxed{}$

$39 \div 4 = \boxed{}$

$40 \div 4 = \boxed{}$

b) $70 \div 5 = \boxed{}$

$71 \div 5 = \boxed{}$

$72 \div 5 = \boxed{}$

$73 \div 5 = \boxed{}$

$74 \div 5 = \boxed{}$

c) $45 \div 3 = \boxed{}$

$46 \div 3 = \boxed{}$

$47 \div 3 = \boxed{}$

$48 \div 3 = \boxed{}$

$49 \div 3 = \boxed{}$

d) $92 \div 4 = \boxed{}$

$91 \div 4 = \boxed{}$

$90 \div 4 = \boxed{}$

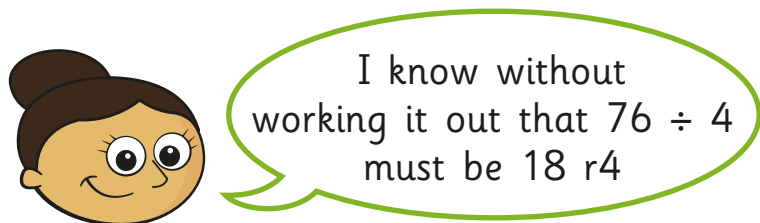
$89 \div 4 = \boxed{}$

$88 \div 4 = \boxed{}$



- 4 Dora has been working out some divisions.

$$\begin{array}{l} 72 \div 4 = 18 \\ 73 \div 4 = 18 \text{ r}1 \\ 74 \div 4 = 18 \text{ r}2 \\ 75 \div 4 = 18 \text{ r}3 \end{array}$$



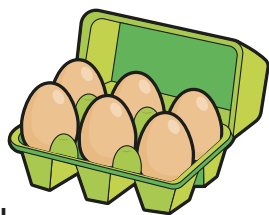
- a) Why does Dora think this?

- b) Explain why Dora is wrong.

- 5 Eggs come in boxes of 6

Annie has 75 eggs.

She wants to know how many boxes she can fill.



- a) Complete the division to work it out.

$$\square \div \square = \square \text{ r} \square$$




- b) What does the remainder represent?

Talk about it with a partner.

- c) Complete the sentence.

Annie can fill boxes with eggs left over.

- 6 Jack has these bulbs.

	Daffodils 49
	Tulips 63
	Crocuses 98

Equal numbers of each bulb are put into 4 tubs.

How many of each bulb will be in each tub?

Daffodils Tulips Crocuses

How many of each bulb will be left over?

Daffodils Tulips Crocuses

How many tubs could Jack use so that there are no bulbs left over?

Divide 3-digits by 1-digit



- 1 Jack is working out $844 \div 4$ using a place value chart.

H	T	O
100 100	10	1
100 100	10	1
100 100	10	1
100 100	10	1

- a) Talk about Jack's method with a partner.
b) Complete the division.

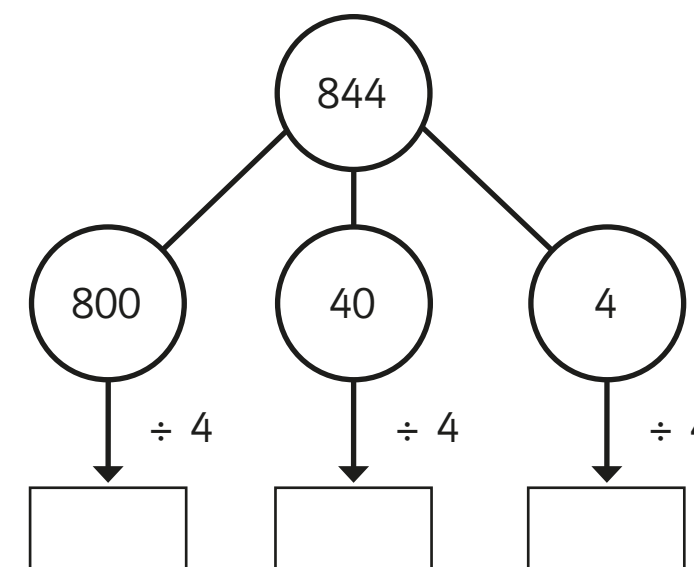
$$844 \div 4 = \boxed{}$$

- 2 Use Jack's method to work out these divisions.

a) $525 \div 5 = \boxed{}$ c) $840 \div 8 = \boxed{}$

b) $636 \div 6 = \boxed{}$ d) $903 \div 3 = \boxed{}$

- 3 Eva is working out $844 \div 4$ using a part-whole model.



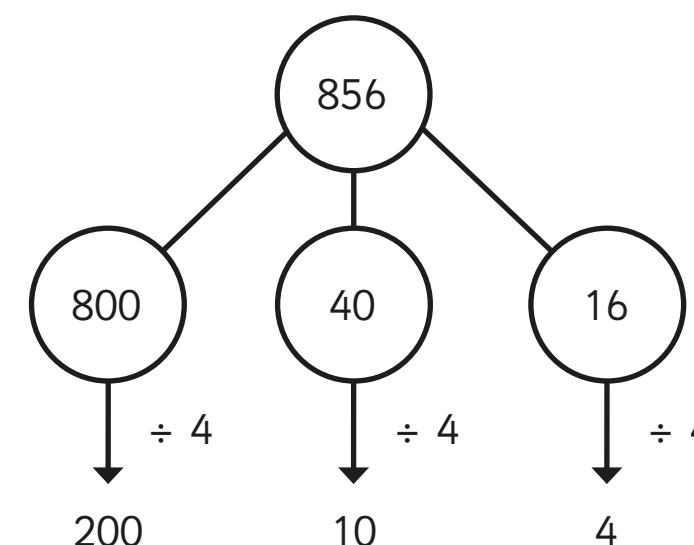
Complete Eva's method.

$$844 \div 4 = \boxed{}$$

- 4 A ball of string is 848 cm long.
It is cut into 4 equal pieces.
What is the length of one piece of string?

$$\boxed{}$$

- 5 Whitney is using flexible partitioning to divide a 3-digit number.



Could Whitney have partitioned her number another way?



Use Whitney's method to work out these divisions.

a) $585 \div 5 =$

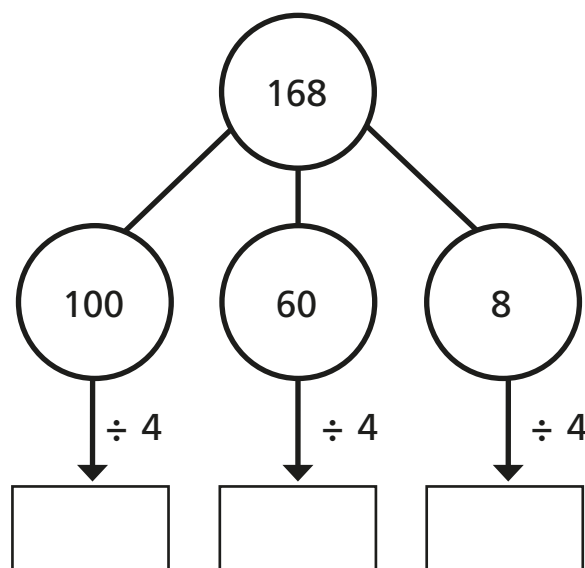
c) $648 \div 4 =$

b) $672 \div 6 =$

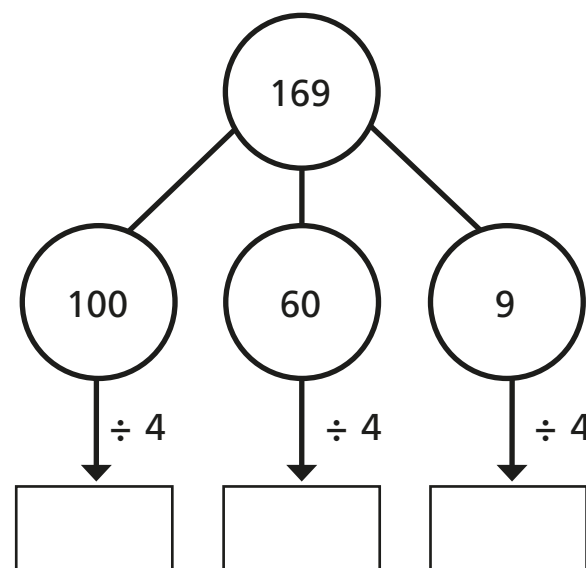
d) $847 \div 7 =$



6 Complete the part-whole models and divisions.



$168 \div 4 =$



$169 \div 4 =$

What is the same and what is different about the calculations?

Talk about it with a partner.



7 Complete the divisions.

a) $258 \div 6 =$

c) $864 \div 4 =$

b) $623 \div 5 =$

d) $824 \div 3 =$

8

Eva has a piece of ribbon.



The ribbon measures 839 cm long.

How much ribbon would be left over if she cuts it into:

a) 4 equal pieces

b) 6 equal pieces

c) 8 equal pieces

Can Eva cut the ribbon into equal pieces with no ribbon left over?

Explain your answer.

9

Use 15 counters and a place value chart.

a) Can you make a number that is divisible by 3?

b) Can you make a number that has a remainder of 1 when divided by 3?

c) Can you make a number that has a remainder of 2 when divided by 3?

What do you notice? Talk about your findings with a partner.



Correspondence problems

- 1 A canteen has 2 types of bread and a choice of 3 sandwich fillings.

Bread	Fillings
white	cheese
brown	tuna
	chicken

- a) List the different sandwiches that can be made.

One has been done for you.

cheese on white

- b) Complete the multiplication to represent the number of different combinations of bread and filling.

$$\square \times \square = \square$$

Complete the sentence.

There are combinations.

- c) How many combinations would there be if there were 4 choices of sandwich filling?

- 2 A pizzeria offers a choice of bases and toppings.

Pizza base	Toppings
deep pan	mushrooms
thin	chicken
	onion
	peppers
	sweetcorn

Complete the multiplication to work out how many different combinations of pizza there are.

$$\square \times \square = \square$$

Complete the sentence.


There are combinations of pizza.

- 3 Mo visits the funfair.

He buys a ticket that allows him to choose 1 ride and 1 game at the fair.

Rides

Big dipper
Dodgems
Carousel



Games

Hook-a-duck
Basketball
Coconut shy
Lucky dip
Test-your-strength

- a)

There are 8 different possible choices of rides and games.



Is Mo correct? _____

Explain your answer.

b) List all the different choices Mo can make.

Mo can make different choices.

4 Aisha has 3 headbands and 5 hair slides.
Kim has 2 headbands and 6 hair slides.
Who has more choices of combinations for wearing one headband and 1 slide?

_____ has more choices.

Talk about it with a partner.



5 Here are the activity choices available at Summer Camp.

Sport	Arts and crafts	Outward bound
football	painting	wall climbing
tennis	pottery	kayaking
golf	mosaics	abseiling
	origami	

Each child is allowed to choose 3 activities per day:
1 sport, 1 arts and crafts and 1 outward bound.

a) How many activity combinations are there?

b) Due to a flooded pitch, football is cancelled.
How many combinations are now possible?

There are combinations.

6 Tom and Esther are building a snowman.
They have a choice of 5 hats, 4 scarves and 2 pairs of gloves to dress their snowman.

How many different combinations are possible?

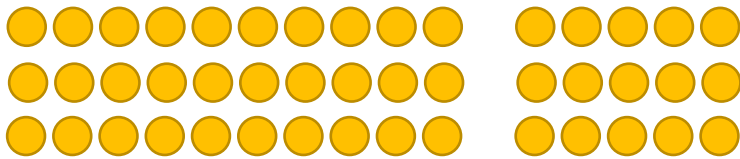
× × =

There are combinations.



Name _____

- 1 Georgia and Dan each have some counters.



Georgia's Counters

Dan's Counters

Write down a multiplication to work out how many counters Georgia has.

$$\square \times \square = \square$$

Write down a multiplication to work out how many counters Dan has.

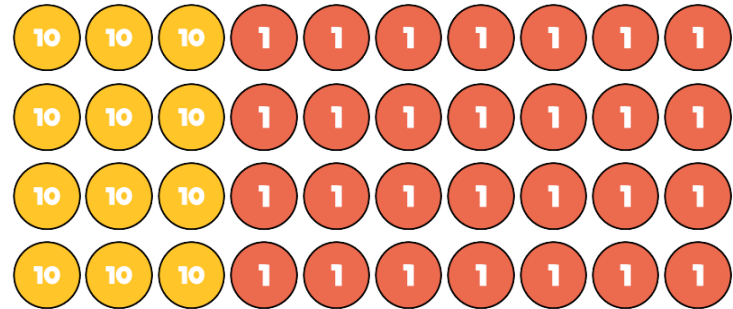
$$\square \times \square = \square$$

How many counters do they have altogether?

_____ counters

- 2 Amir is working out 37×4

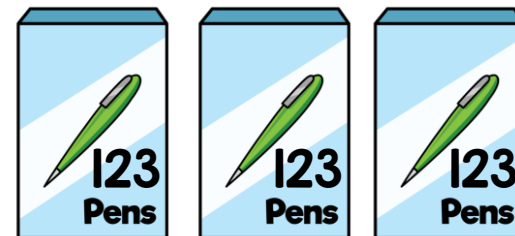
He uses place value counters to help him.



Work out 37×4

Show all your working.

- 3



How many pens in total?

_____ pens

☐
1 mark

☐
1 mark

☐
1 mark

☐
1 mark

☐
1 mark

- 4 Work out the following multiplications.

$$36 \times 8 = \underline{\hspace{2cm}}$$

$$215 \times 7 = \underline{\hspace{2cm}}$$

2 marks

- 5 Tina has £2,000
She buys 6 new paintings.
Each painting costs £259
How much money does she have left?

£

2 marks

- 6 Work out $5 \times 797 \times 2 = \underline{\hspace{2cm}}$
Show or explain your method.

2 marks

- 7 Complete the missing numbers.

	5	4	2
×			
<hr/>			
			8
<hr/>			

1

2 marks

- 8 A small bag of sweets contains 15 sweets.
A large bag of sweets contains 7 times as many as the small bag.
Max buys 8 bags of each.
How many sweets does he buy in total?

 sweets

2 marks

Circle how confident you feel with multiplication.

1

2

3

4

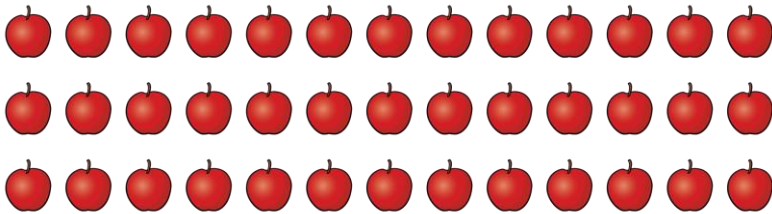
5

Not
confident

Very
confident

Name _____

- 1 Max has 39 apples.



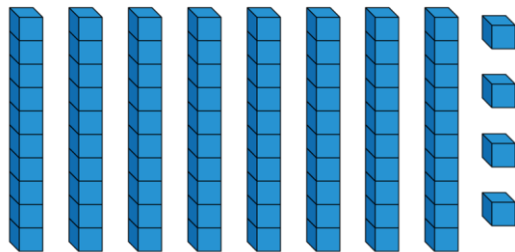
He puts them into bags.

He puts 3 apples in each bag.

How many bags does he need?

1 mark

- 2 Work out $84 \div 4 =$



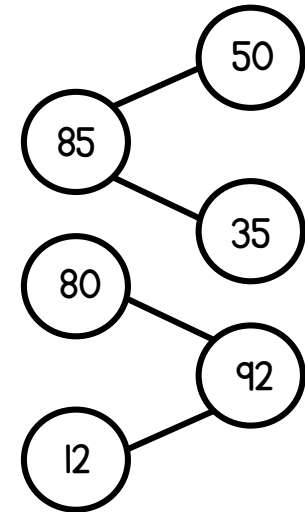
1 mark

- 3 Calculate the divisions.

Use the part-whole models to help you.

$$85 \div 5 = \square$$

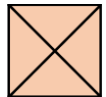
$$92 \div 4 = \square$$



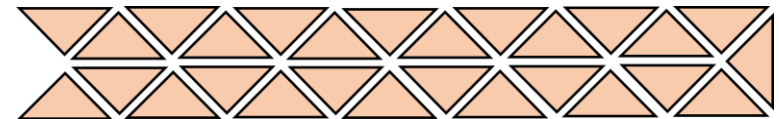
1 mark

1 mark

- 4 Gina is making squares using triangles.



Gina has 27 triangles.



How many complete squares can Gina make?

squares

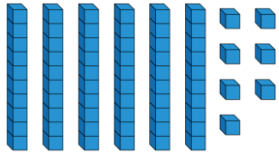
1 mark

How many triangles does she have left over?

triangles

1 mark

5 Work out $67 \div 3 =$



1 mark

6 The length of 5 identical pencils is 95 cm.
What is the length of 1 of the pencils?

_____ cm

What is the length of 2 of the pencils?

_____ cm

1 mark

1 mark

7 Some doughnuts are shared between boxes.
There are 6 doughnuts in each box.
There is 1 doughnut left over.
Circle how many doughnuts there could be.

65

66

67

68

Explain your answer.

1 mark

1 mark

8 696 pens are packed into boxes of 3



How many boxes are there?

_____ boxes

1 mark

9 Work out

$$126 \div 3 = \underline{\quad\quad\quad} \quad 675 \div 5 = \underline{\quad\quad\quad}$$

2 marks

10 Complete the missing number.

$$\boxed{\quad\quad\quad} \div 4 = 134 \text{ r } 1$$

1 mark

Circle how confident you feel with division.

1

2

3

4

5

Not
confident

Very
confident