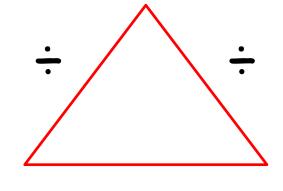
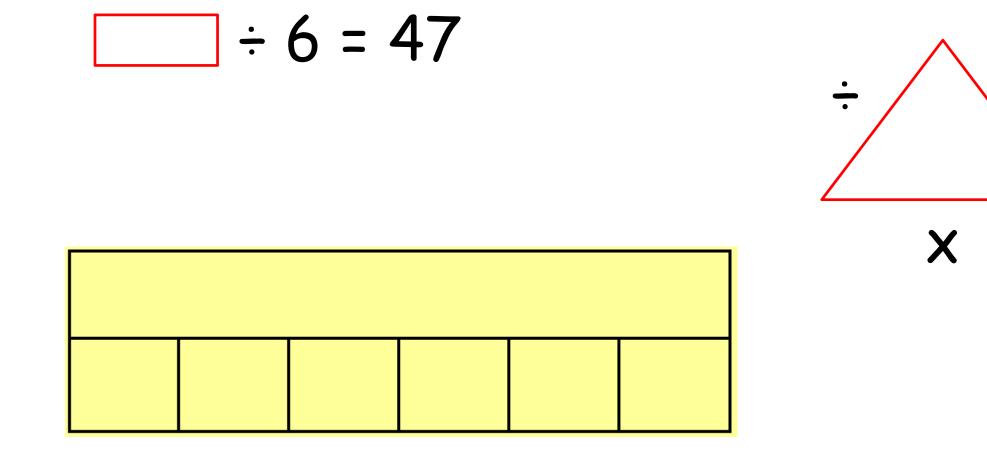
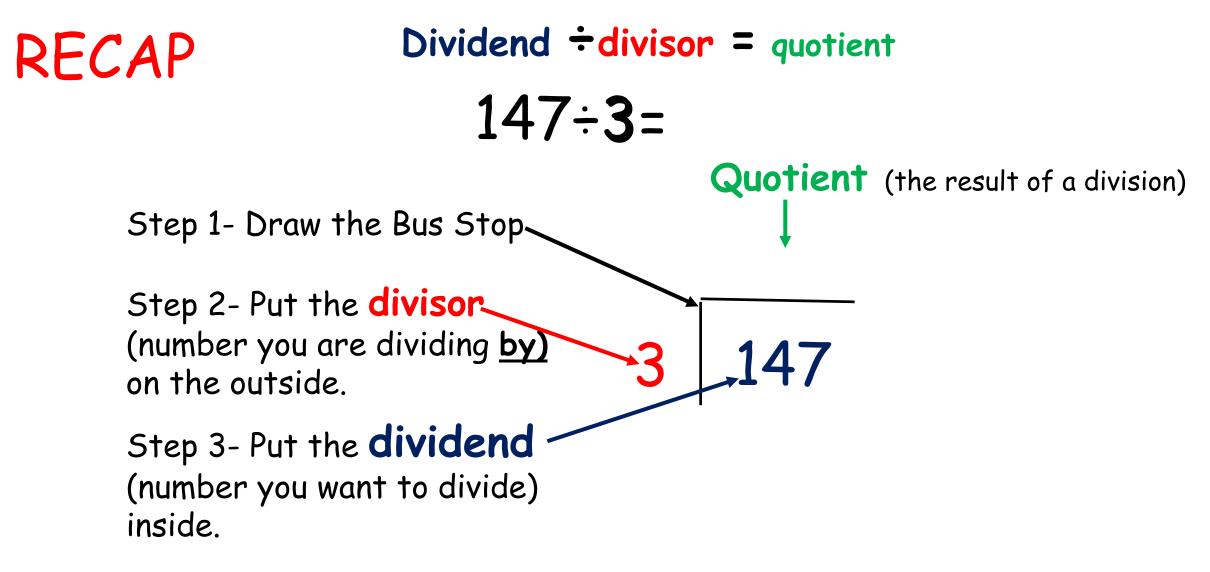


### Starter in your book: How would you find the missing value? Explain.

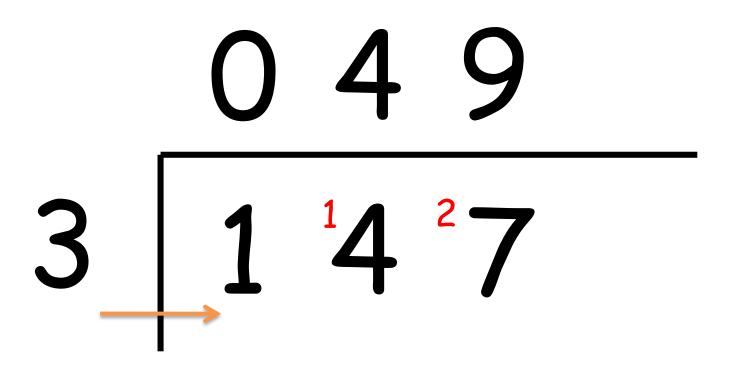


Starter continued in your book: How would you find the missing value? Explain.





### Now we're ready...



Step 1- How many 3s go into 1? O remainder 1 regrouped to tens Step 2- How many 3s go into 14? A as 3 X 4=12; we have 14-12= remainder 2 regrouped to ones

Step 3- How many 3s go into 27? 9 as 3 X 9=2 7

Now solve this in your book. Remember to write all the steps!

# 5 4 5 5

Step 1- How many 5s go into 4?

Step 2- How many 5s go into .....?

Step 3- How many 5s go into .....?

### Self-Assessment using different colour and a small tick. 455÷5=91 () 9 1 5 4<sup>4</sup>55

Step 1- How many 5s go into 4? O remainder 4 regrouped to tens

Step 2- How many 5s go into 45? 9 as 5 X 9 =45

Step 3- How many 5s go into 5? 5 as 5 X 1 =5

Now solve this in your book. Remember to write all the steps!

812÷4=

## 4 812

Step 1-....?

Step 2-....?

Step 3-....?

812÷4=203 2034 | 8 1<sup>1</sup> 2

Step 1- How many 4s go into 8?

Step 2- How many 4s go into 1? O remainder 1 regrouped to ones Step 3- How many 4s go into 12? 3 as 4 X 3 =12 Try another in your book. Remember to write all the steps!

## 9 6 3 9

Step 1-....?

Step 2-....?

Step 3-....?

639÷9=71 071 9 6<sup>6</sup>39

Step 1- How many 9s go into 6? O remainder 6 regrouped to tens

Step 2- How many 9s go into 63? 7 as 9 X 7=63

Step 3- How many 9s go into 9? 1 as 9 X 1 =9

Now solve these in your book using the short division method (bus top method) 1) 285 ÷ 5= 2) 201 ÷ 3= 3) 504÷7= 4) 294÷7= 5) 335÷5= 6) 329÷7= 522÷6= 7) 712÷8=

285 ÷ 5=57

## 057 52<sup>2</sup>8<sup>3</sup>5

Step 1: 2÷5=0 r 2;2 regrouped to tens

- Step 2: 28÷5=5 r 3; 5 X 5= 25 so 28 -25=3 remainder regrouped to ones
- Step 3: 35÷5=7

1)

## 2) 201 ÷ 3=67 067 **3** 2<sup>2</sup> 0<sup>2</sup> 1

Step 1: 2÷3=0 r 2;2 regrouped to tens

- Step 2: 20÷3=6 r 2; 3 X 6= 18 so 20 -18=2 remainder regrouped to ones
- Step 3: 21÷3=7

2)

3)

## 3) 504÷7=72 072 **750**<sup>1</sup>**4**

Step 1: 5÷7=0 r 5;5 regrouped to tens Step 2: 50÷7=7 r 1; 7 X 7= 49 so 50 -49=1 remainder regrouped to ones Step 3: 14÷7=2

4)

# **042 4)** 294÷7=42 7 2<sup>2</sup>9<sup>1</sup>4

Step 1: 2÷7=0 r 2;2 regrouped to tens Step 2: 29÷7=4 r 1; 7 X 4= 28 so 29 -28=1 remainder regrouped to ones Step 3: 14÷7=2

5)

$$\frac{5}{335+5=67}$$

$$\frac{5}{335+5=67}$$

Step 1: 3÷5=0 r 3;3 regrouped to tens

Step 2: 33÷5=6 r 3; 5 X 6= 30 so 33 - 30=3 remainder regrouped to ones Step 3: 35÷5=7

### 

Step 1: 3+7=0 r 3;3 regrouped to tens

Step 2: 32÷7=4 r 4; 4 X 7= 28 so 32 - 28=4 remainder regrouped to ones

Step 3: 49÷7=7

6)

$$\begin{array}{c} & \textbf{7} & 522 \div 6 = 87 \\ & \textbf{5} & \textbf{5} & \textbf{5} & \textbf{5} \\ & \textbf{5} & \textbf{5} & \textbf{5} \\ & \textbf{5} & \textbf{5} & \textbf{5} \\ & \textbf{5}$$

Step 1: 5÷6=0 r 5;5 regrouped to tens

Step 2: 52÷6=8 r 4; 8 X 6= 48 so 52 - 48=4 remainder regrouped to ones

Step 3: 42÷6=7

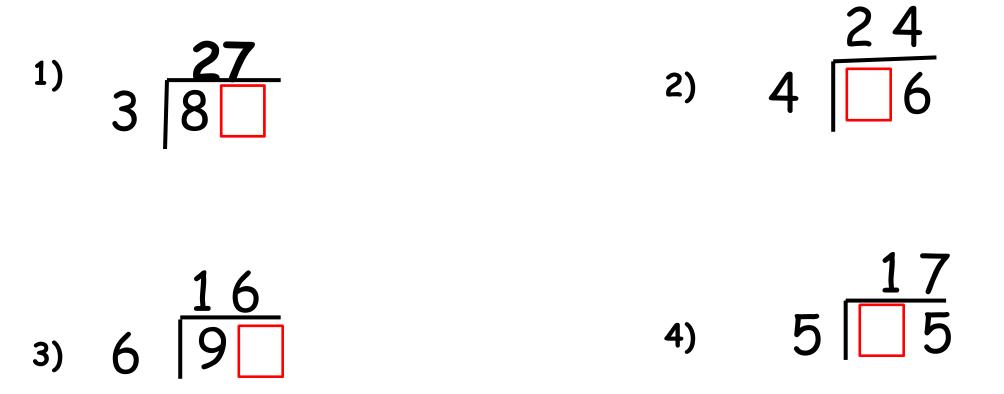
Step 1: 7÷8=0 r 7;7 regrouped to tens

Step 2: 71÷8=8 r 4; 8 X 8= 64 so 71 - 64=7 remainder regrouped to ones

Step 3: 72+8=9

8)

### Challenge: Find the missing values using the bus stop method.



Something new that I have learned is... Something that I have improved on today is...

### HOT CHALLENGE (optional<sup>©</sup>)

Mastery 2: Megan and Scott are playing a game. They have rolled dice to get 4 digits each.

They must put their 4 digits into the calculations below so that they make a 3-digit number being divided by a 1-digit number. To win the game, they must be the closest one to make 100. They can order their digits in any way they want.

 Megan
 Scott

 2
 5
 6
 7
 8
 1
 3
 9

Who would win the game? Explain why and use examples to convince me!

→ Explain your reasoning: how did you solve this problem?

→ Were there any orders that you didn't need to try out? Why?

#### RECAP

#### What methods have you used to divide in Year 4?

- Using known division and multiplication facts e.g.  $36 \div 6 = 6$ 

- Partitioning e.g.  $84 \div 6 = (60 \div 6) + (24 \div 6)$ 

- Short division (bus stop method) e.g.  $648 \div 6 = 108$ 

You will be using these methods today to solve division word problems

Can you choose efficient methods to solve division problems? Copy these in your book.

Known Facts	Partitioning	Bus Stop

 $360 \div 6$  $98 \div 7$  $448 \div 7$  $92 \div 4$  $468 \div 6$  $36 \div 4$  $49 \div 7$  $125 \div 5$ 

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The <b>RUCSAC</b>	Method		
for solving m	naths		
word problems			

R	Read the question carefully	Find the important information - <u>underline</u> it!
U	<u>Understand</u> the question	What do you have to find out? Draw a 'picture' of the question, if it helps.
С	<u>Choose</u> the correct method of calculation	<ul> <li>+ - x ÷</li> <li>What method is best for you to use?</li> </ul>
S	Solve the problem	Show every step and keep your working out neat.
A	Answer the question	Read the question again – have you answered it? Make the answer clear.
С	<u>Check</u> your answer	Does it make sense? Find a way to check - estimate or use the inverse.

### Let's try together:

Mr Briggs has <u>bought one hundred and thirty eight</u> blue star 1. books. These need to be <u>shared equally between</u> all of the Year 4 and 5 classes. How many books does each class get?				
Known Facts Partitioning Bus Stop (Short Division)				
138 ÷ 2= 69				

Check: 69 X<u>2</u> 138 1

Answer: Each class will get 69 books.

### Now do these in your book:



#### The **RUCSAC** Method for solving maths word problems

R	Read the question carefully	Find the important information - <u>underline</u> it!
U	<u>Understand</u> the question	What do you have to find out? Draw a 'picture' of the question, if it helps.
С	<u>Choose</u> the correct method of calculation	+ - x ÷ What method is best for you to use?
S	Solve the problem	Show every step and keep your working out neat.
A	Answer the question	Read the question again - have you answered it? Make the answer clear.
С	Check your answer	Does it make sense? Find a way to check - estimate or use the inverse.

2. Toby and three friends are playing a card game. They share out twenty eight cards between them. How many do they get each?

Known Facts

Partitioning

Bus Stop (Short Division)

Eight hundred and sixty four apples are picked on a farm. Three hundred and forty eight apples are sent away to make apple juice. The rest are packaged into boxes of six. How many boxes will be used?

Known Facts	Partitioning	Bus Stop (Short Division)

Aimee read thirty five pages of her book in five days.

 Toby read thirty six pages of his book in six days. Who read the most pages per day?

```
Known Facts
```



The	RUCS/	٩C	Method	
for solving maths				
word problems				

R	Read the question carefully	Find the important information - <u>underline</u> it!
U	<u>Understand</u> the question	What do you have to find out? Draw a 'picture' of the question, if it helps.
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С	<u>Check</u> your answer	Does it make sense? Find a way to check – estimate or use the inverse.

There are forty-three girls and thirty-five boys in Year 4.
5. Mr Narborough mixes them up and puts them into groups of six. How many groups are there altogether?

Known Facts	Partitioning	Bus Stop (Short Division)
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6.	when baby Freddie seven pounds on de	corating the nursery	d twenty one pounds three hundred and fifty . He then split the rest v much does he put in
	Known Facts	Partitioning	Bus Stop (Short Division)

Word problem answers:

- 2. 28 ÷ 4= 7 Answer: Each child gets 7 cards.
- 3. 1)864-348=516
  2) 516 ÷ 6= 86 Answer: 86 boxes will be used to pack the apples.
- 4. Aimee 35 ÷5=7

Toby 36 ÷6 =6 Answer: Aimee read most pages per day. 5. 1) 43+35= 78

2) 78 ÷6= 13 Answer: There are 13 groups altogether.

6. 1) £721-£357=£364

2) £ 364  $\div$ 7=£52 Answer: £52 were put into each bank account in seven banks.

### HOT Challenge (optional<sup>©</sup>)

#### GAME:

- ✓ Alison places the 5 down first.
- ✓ Charlie puts down the 8 to make 58, which is a multiple of 2.
- ✓ Alison puts down the 2 to make 582, which is a multiple of 3.
- → Charlie now needs to make a multiple of 4. Can Charlie make a move? Explain your reasoning fully.
- → Alison will then need to make a multiple of 5.
  Will Alison be able to make a move? Explain your reasoning fully.

