Step In

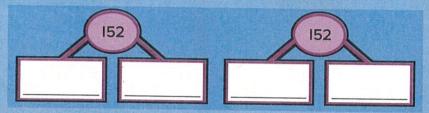
Using the Formal Division Algorithm (Regrouping Before Dividing)

Mrs Singull shares the total amount of money in this picture equally among her four children.

How much money will each child receive? How do you know? What will she have to do to share the money?



Show two different ways to break 152 into parts that are easier to divide by 4.



Kaylee followed these steps to work out the answer.

Step I

Step 2

Step 3

	3	8	
4)	5	2	_
- 1	2	↓	
	3	2	;
	3	2	
		0	_

Describe each step. How did Kaylee regroup the dividend to work out each share?

Step Up

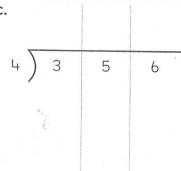
I. Follow the above steps to solve each problem.

a.

		7	
5)	3	7	5
	3	5	
-		2	

b.

C.



2. Complete each of these.

a.

b.

c.

d.



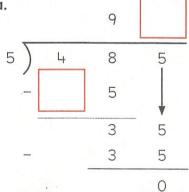
e.

f.

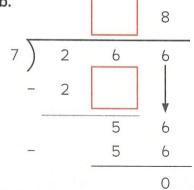
Step Ahead

Write the missing numbers.

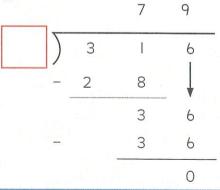
a.



b.



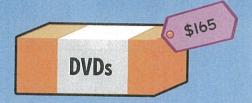
c.



Step In Solving Division Problems Involving Remainders

A boxed set of DVDs costs \$165. There are 6 DVDs in the set.

What is the cost of each DVD?





I broke the total cost into parts that are easier to divide by 6. That's \$120 + \$42 + \$3.

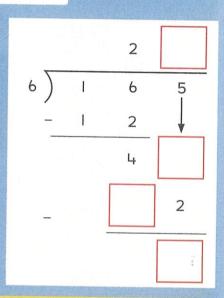
Loyla uses the formal division algorithm to work out the answer.

Write the missing digits.

What does the remainder represent in this situation?

How would you deal with the remainder?

What is the cost of each DVD?



Step Up

Work out the cost of one DVD. Then loop the boxed set that is the best value for money.



\$196 8 DVDs

Leo pays \$129 to park at the airport of five days. What does it cost to park of the airport for one day?					
9					
\$					
Eight DVDs are packed into each box set. There are 1210 DVDs to pack. How many DVDs are left over?	ed d. Kate buys a new TV for \$1497. She pays equal monthly payments over six month What amount does she pay each month				
	VDs \$				
ep Ahead Find a possible solution to this problem.					

Step In Solving Division Problems

Five friends equally share the total cost of this meal.

What amount should each person pay?



I know that it's more than \$60, because 5 x \$60 is \$300.

How could you break \$345 into parts that are easier to divide by 5?

Ocean Spray Café 5 × Entrée \$125 5 × Main \$180 5 × Drinks \$40 Total \$345

Hina worked out the amount that each person pays like this.

Describe the steps that she followed.

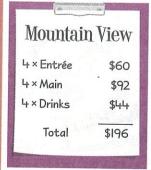
Ahmed worked out the amount in a different way. He divided the cost of the entrées, then the mains and then the drinks by 5. He then added the partial quotients.

Is his answer the same as Hina's answer? Explain your thinking.

-	6	9	
5) 3	4	5	_
- 3	0	1	
	4	5 5	
	Ц	5	
		0	

Step Up

- 1. Work out the amount that each person pays. Show your thinking.
- a. The total cost is shared by 4 people.
- b. The total cost is shared by 6 people.



each



each

2. Use a method of your choice to solve each problem. Show your thinking.

13+3 ÷ 1 = 135+ ÷ + = .1 e. .b

Step Ahead Solve these word problems. Use scrap paper to record your thinking.

in the survey? male. How many females participated One-quarter of the participants were b. I420 people participated in a survey.

money does he need to pay? help pay for his share. How much more \$198. Dylan uses a \$50 gift voucher to a. Three friends share the cost of a gift for

females

6.8

Step In

Exploring the Relationship Between Metres and Millimetres

This block measures 10 cm.

How many millimetres are in 10 cm? How do you know?



How many centimetres are in one metre? How could you check?



You could check by placing 10 tens blocks along one side of a metre ruler.

In the word millimetre,
milli means one-thousandth.
A related word is millipede,
a creature with so many
legs it was guessed that
it had about 1000.

How many millimetres are in one metre? How did you work it out?

How would you change these?

3500 mm to metres

12 metres to millimetres

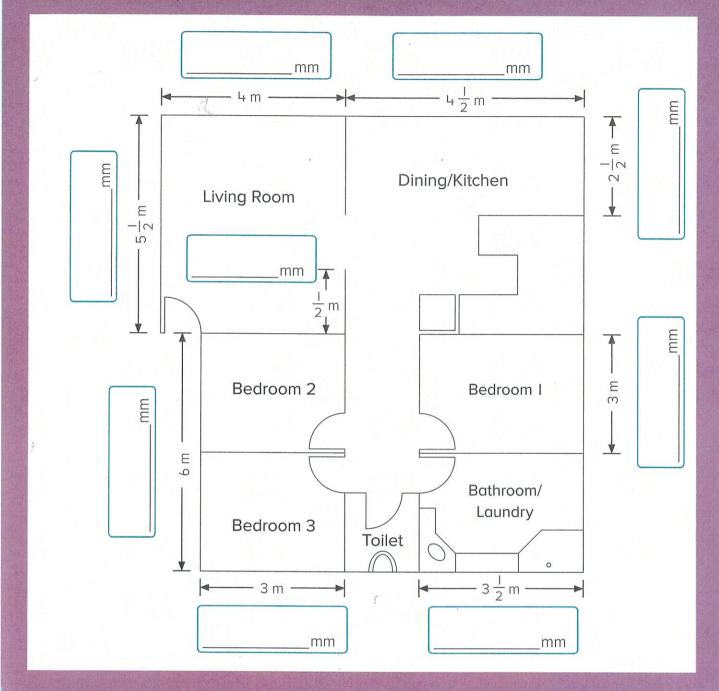
Step Up

I. Complete each of these.

a.	6 metres	b.	9 metres	c.	4 metres
H	is the same length as	H	is the same length as	H	is the same length as
	mm		mm		mm
d.	II metres	e.	I5 metres	f.	$7\frac{1}{2}$ metres
-C	is the same length as	H	is the same length as	4	is the same length as
	mm		mm	_	mm
g.	$8\frac{1}{2}$ metres	h.	$23\frac{1}{2}$ metres	i.	46 ½ metres
H	is the same length as	-(is the same length as	H	is the same length as

mm

2. Look at this floor plan. Write each dimension in millimetres.



Step Ahead

Write numbers to complete this addition trail.