## Step In

# Reinforcing the Partial-Quotients Strategy to Divide Four-Digit Dividends

A beachside apartment costs \$5236 to rent for four weeks.

What is the price of one week?

Would it cost more or less than \$1000 a week? How do you know?

Caroline wrote these number sentences to work out the price.

Complete each of the sentences.

How did she break 5236 into parts that are easier to divide by 4?

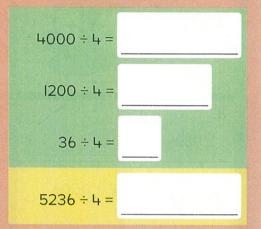
What is another way to break 5236 into parts?

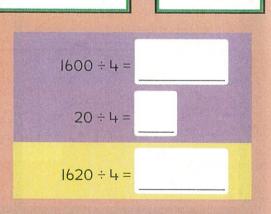
Another apartment costs \$1620 for four weeks rent. What is the price of one week?



You could break 1620 into parts that are easier to divide by 4. This diagram shows you how.

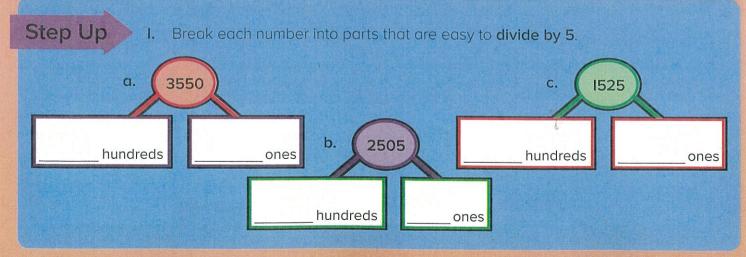
Complete the sentences.





20 ones

16 hundreds



2. Write number sentences to work out each of these.

$$|300 \div t| = \frac{1}{1200 \div 3} = \frac{1}{1200 \div 3} = \frac{1}{1200 \div 9} = \frac{1}{1200$$

= E ÷

Then write number sentences to work out the exact amount. 3. Estimate each answer in your head.

Colour the numbers that you can divide equally by 4.

Step Ahead

3516

2499

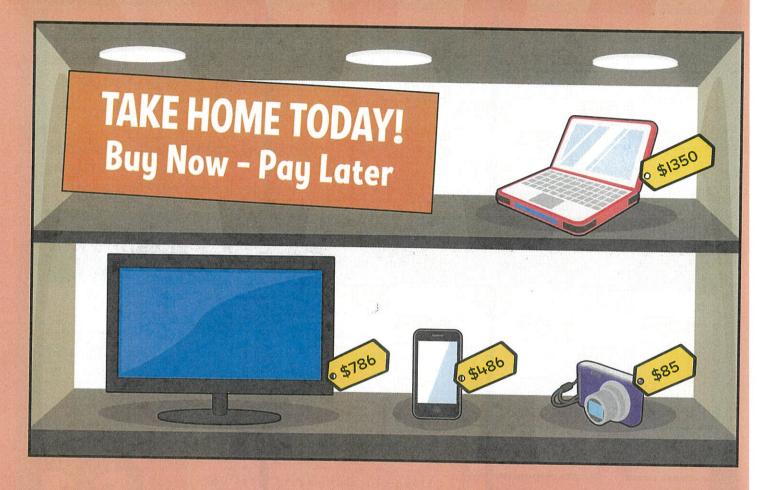
= 9 ÷

9709

0184

1720

# Step In Solving Word Problems Involving Division



Imagine you buy one of these items and pay for it over several months.

How would the store work out the amount you need to pay each month?

Imagine you buy the television and pay equal monthly amounts over six months.

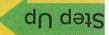
How much would you pay each month?

How could you break 786 into parts that are easy to divide by 6?



Imagine you buy the phone and pay equal monthly amounts over six months.

What amount will you pay each month?



bay each month? over 7 months. How much does he He makes edual monthly payments p. Noah buys the laptop and camera.

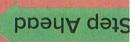
each month? payments. How much does she pay \$50 first then pays 4 equal monthly a. Addison buys the phone. She pays

\$

bay each month? over 6 months. How much does she She makes equal monthly payments Hina buys the phone and laptop.

each month? 5 months. How much does he pay He makes edual payments over c. Ahmed buys six cameras for his class.

Then draw a 🗸 beside the plan that you would choose. Calculate the monthly payments for each phone.





\$

\$





### Step In Recording Combinations of Length Units

Look at the picture.

How would you say the wingspan of the eagle?

How would you say the wingspan in metres and centimetres?

How would you say the wingspan in centimetres?



I know there are one hundred centimetres in one metre.

What is another way you could say the wingspan?



Step Up

I. Loop the

Loop the most sensible measure for each of these.

a. The amount of rain that fell overnight was

46 cm

4.6 mm

46 m

4.6 m

b. The length of the classroom is about

9680 cm

96.8 m

968 mm

9.68 m

c. In one hour, the world's fastest woman ran

18 m

18 000 cm

18 000 m

.

d. The distance around the school sports field is

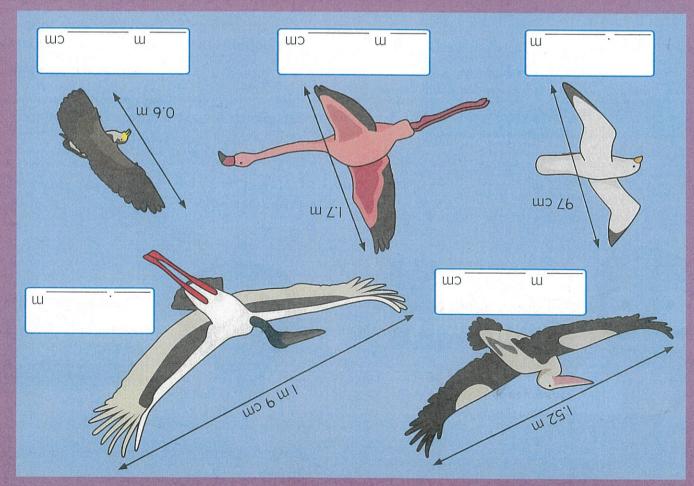
4850 m

485 m

48 500 m

48.5 m

18 mm



3. Solve these word problems. Show your thinking.

b. A vulture's wingspan is 2.3 m. A magpie's wingspan is 80 cm. What is the difference between their wingspans?

**a.** A palm cockatoo's wingspan is I.I m. What is the wingspan of the kookaburra.

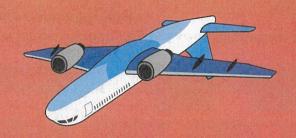
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bbedA qeta

This plane has a wingspan of 60 m. There is 60 cm clearance on each side of the plane as it enters the hanger.

How wide is the hanger entrance?



6.8

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3 160 Stepping Stones . Year 5

### Step In Introducing Kilometres

Where do you hear or see kilometres used?

Rapid City 18 km



I have seen kilometres used on some road signs. My mum and dad do a 5-kilometre fun run every year.





Kilometres are used to measure long distances. How is kilo different from milli?

Look at a metre ruler.

How many metre rulers would you need to make one kilometre?

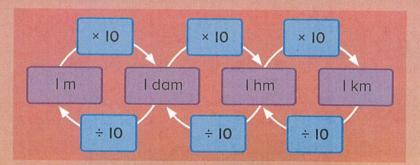
What do you remember about the decimetre?

Some other metric units of length are not used often but help show the relationship between units of length.

In the word kilometre, kilo means one thousand. A related word is kilogram, which is equal to 1000 grams. A short way to write kilometre is km.

A decametre is equal to 10 metres. A short way to write decametre is dam. A hectometre is equal to 100 metres. A short way to write hectometre is hm.

Look at this diagram. What do you notice?



How is the relationship between kilometres and metres the same as the relationship between metres and millimetres?

Step Up I. Complete these.

- a. I kilometre is the same length as
- b. 10 kilometres is the same length as
- 100 kilometres is the same length as

2. a. These walking trails are in a National Park. (Loop) the trails that are between 1000 and 6000 metres long. Use the information above to help you.



b. William's family walked about 15000 m. Which trails might they have walked? Write two different combinations.

3. Write these lengths in metres.

a. 16 km 8 m is

m

**b.** 5 km 40 m is

Step Ahead Complete the table below to show equivalent distances.

mm	cm	dm	m	dam	hm	km
			600			<u>6</u> 10