AIM: 1-2 How do we interpret and solve division word problems?

Name \_\_\_\_\_

Date 4 20

<u>Warm-up:</u> During a food drive, McCall Middle School collected 8,982 canned food items.

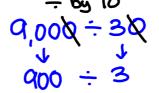
<u>Each of the 28 classrooms</u> that participated in the drive donated the same number of items.

Use <u>estimation</u> to find the number of items each classroom donated.

*Estimate*: 8,982 → **9,000** 

Estimate:  $28 \rightarrow 30$ 

Ms. Piccolo



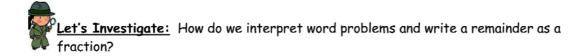




Each classroom donated approximately 300 food items.

How can you tell if your answer is reasonable?

Your answer is reasonable if your estimated quotient is close to the actual quotient.



Vocabulary:

8. Remainder

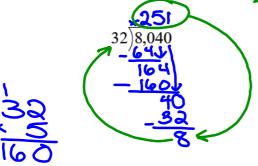
9. Decimal

10. Estimate

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## DUMSCBR

1. Divide and write the remainder as a fraction:



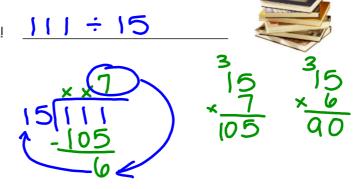
around the world' 25132:8 = 2514

Now divide using Estimation:

## 2. Interpreting word problems:

There are 111 extra books in the school library. The books must be packed into boxes to ship to the High School. If each box holds 15 books, how many boxes will be needed to pack all of the books?

First, let's set up a division problem! Then, solve your division problem.



Write the quotient as a fraction: 7 15 mixed #

What does the remainder represent in this situation? \_

The remainder is 6, which represent there are 6 books left over.

How many boxes are needed to pack all of the books? Explain your reasoning.

You will need a total of 8 boxes because you need to include the six leftover books.

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## Now You Try! Partner Practice

3. Solve and write the quotient as a FRACTION:

Underline key words and write your answer in a complete sentence.

4. A full sheet cake serves 28 people. Approximately, how many full sheet cakes are needed to serve a graduation for 2,785 guests? Use <u>estimation</u> to determine the quotient.

Approximately 100 cakes will be needed.

Will the actual number of full sheet cakes be <u>more</u> or <u>less</u> than the estimated quotient you obtained above? Explain how you know without dividing the actual numbers.

The actual number of cakes will be less than the estimated quotient because we rounded both #'s to its largest place value.