Guided NOTES

3.6 Estimating Quotients (6.NS.2)

Vocabulary

Definition: go well together	Example: 25:5=5 48:10=8 planut butter + jelly
What would make numbers compatible? They divide into eath other perfectly.	Non-Example:

To estimate quotients of decimals, use rounding and compatible numbers. Compatible numbers are numbers that are easy to divide mentally.

Steps:

- #1 Round the divisor (smaller number) to a whole number (if it's a decimal).
- #2 Round the dividend (larger number) to a whole number that is a multiple of the divisor.

Example:

Estimate 88.75 ÷ 10.1

- ✓ Round the divisor, 10.1, to a whole number......10.
- ✓ Round the dividend, 88.75, to a whole number that is a multiple of 10......90.





about 9

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Guided Practice: Estimate each quotient.

- 50 1000 = 20
- 4.) The average yearly precipitation for Gulfport, Mississippi, is 65.3 inches. About how much precipitation does the area receive each month? Explain why your answer is reasonable.

 (HINT: How many months are in a year?)

The area receives about

le inches of precipitation a month.

5.) Mauricio bought 6.75 yards of fabric for a total of \$47.50. About how much was the cost per yard? Explain why your answer is reasonable.

The cost per yard

was about \$7.

Partner Talk

Emily spent a total of \$38.04 on four CDs. If each CD cost the same amount, what is a reasonable amount for the cost of each CD?

A reasonable amount for

each co is \$10.

Building on the Essential Question - When is it helpful to estimate quotients?

It is helpful to estimate quotients when you're checking your answer to see if it's reasonable.

Rate Yourself - How confident are you about estimating quotients? Shade the ring that applies.

