You will need - Pencil, Pen for correcting, Agenda, 3-ring binder, spiral/comp notebook

1. Correct SR 3
2. Hand out SR 4 (due Friday)
3. Lesson
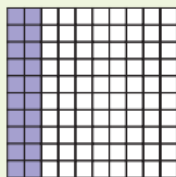4. Finish Integer test if needed

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Operations with Decimals   pg.104

Represent Decimals

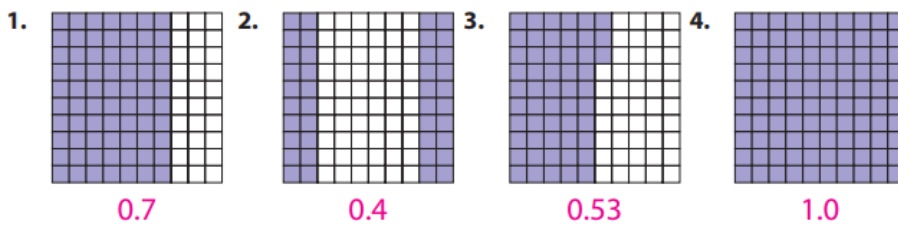my.hrw.com   Assessment and Intervention

EXAMPLE

Think: 1 square $= 1$ of 100 equal parts
$= \frac{1}{100}$, or 0.01

10 squares $= 10$ of 100 equal parts
$= \frac{1}{10}$, or 0.1

So, 20 squares represent 2×0.1, or 0.2.

Write the decimal represented by the shaded square.

1. 0.7
2. 0.4
3. 0.53
4. 1.0

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Multiply Decimals by Powers of 10

EXAMPLE 6.574×100 *Count the zeros in 100: 2 zeros.*

$6.574 \times 100 = 657.4$ *Move the decimal point 2 places to the right.*

Find the product.

5. 0.49×10 ___4.9___   6. $25.34 \times 1,000$ ___25,340___   7. 87×100 ___8,700___

25,340

Words for Operations

EXAMPLE   Write a numerical expression for the product of 5 and 9.   *Think: Product means "to multiply."*
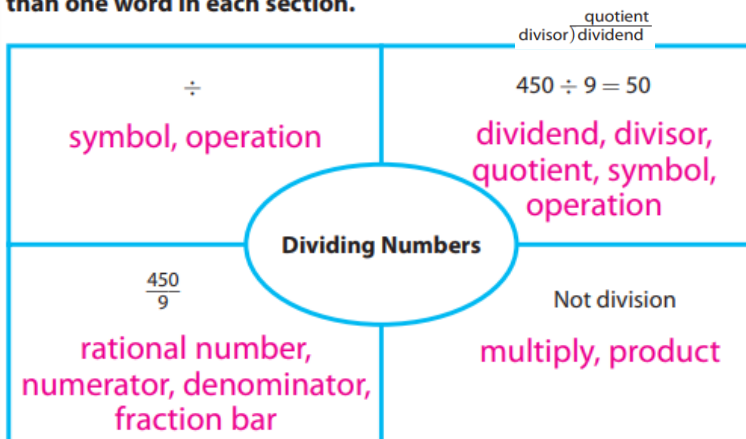
5×9 *Write 5 times 9.*

Write a numerical expression for the word expression.

$\frac{14}{7}, \; 7\overline{)14}$

8. 20 decreased by 8 ___$20 - 8$___   9. the quotient of 14 and 7 $14 \div 7$

10. the difference between 72 and 16 $72 - 16$ 11. the sum of 19 and 3 $19 + 3$

Visualize Vocabulary   pg. 105

Use the ✔ words to complete the chart. You may put more than one word in each section.

$$divisor\overline{)dividend}^{\,quotient}$$

÷	$450 \div 9 = 50$
symbol, operation	dividend, divisor, quotient, symbol, operation
$\frac{450}{9}$	Not division
rational number, numerator, denominator, fraction bar	multiply, product

Dividing Numbers

Vocabulary

Review Words

decimal *(decimal)*
✔ denominator *(denominador)*
divide *(dividir)*
✔ dividend *(dividendo)*
✔ divisor *(divisor)*
✔ fraction bar *(barra de fracciones)*
✔ multiply *(multiplicar)*
✔ numerator *(numerador)*
✔ operation *(operación)*
✔ product *(producto)*
✔ quotient *(cociente)*
✔ rational number *(número racional)*
✔ symbol *(símbolo)*
whole number *(número entero)*

Understand Vocabulary

Match the term on the left to the definition on the right.

1. divide
2. denominator
3. quotient
4. numerator

A. The bottom number in a fraction.
B. The top number in a fraction.
C. To split into equal groups.
D. The answer in a division problem.

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LESSON 5.1 Dividing Whole Numbers **Estimating Quotients** pg.107

A local zoo had a total of 98,464 visitors last year. The zoo was open every day except for three holidays. On average, about how many visitors did the zoo have each day?

quotient
divisor) dividend

A To estimate the average number of visitors per day, you can divide the total number of visitors by the number of days. To estimate the quotient, first estimate the dividend by rounding the number of visitors to the nearest ten thousand.

98,464 rounded to the nearest ten thousand is ___100,000___.

B There were 365 days last year. How many

days was the petting zoo open? ___362___

C Estimate the divisor by rounding the number of days that the zoo was open to the nearest hundred.

___362___ rounded to the nearest hundred is ___400___.

D Estimate the quotient. ___100,000___ ÷ ___400___ = ___250___

The average number of visitors per day last year was about ___250___.

Reflect

1. How can you check that your quotient is correct?
   Multiply the divisor and the quotient; if this product is equal to the dividend, then the quotient is correct.

2. **Critical Thinking** Do you think that your estimate is greater than or less than the actual answer? Explain.
   Sample answer: Less than; the divisor was rounded up.

Handwritten notes:
0-4 (Stay)
5-9 (↑ one)
98,464
98,000 → 100,000
362
400
Act. Ans.
98,464 ÷ 362
272
Est
100,000 ÷ 400
250

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Using Long Division pg.108

A local zoo had a total of 98,464 visitors last year. The zoo was open every day except three holidays? On average, how many visitors did the zoo have each day?

STEP 1 362 is greater than 9 and 98, so divide 984 by 362. Place the first digit in the quotient in the hundreds place. Multiply 2 by 362 and place the product under 984. Subtract.

```
      2
362) 98,464
   − 72 4
     26 0
```

STEP 2 Bring down the tens digit. Divide 2,606 by 362. Multiply 7 by 362 and place the product under 2,606. Subtract.

```
      27
362) 98,464
   − 72 4
     26 06
   − 25 34
        72
```

STEP 3 Bring down the ones digit. Divide the ones.

```
       272
362) 98,464
   − 72 4
     26 06
   − 25 34
        724
      − 724
          0
```

○ The average number of visitors per day last year was 272.

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YOUR TURN pg.108

$$\frac{\text{quotient}}{\text{divisor}) \text{dividend}}$$

Find each quotient.

3. $34,989 \div 321$ _____

4. $73,375 \div 125$ _____

```
          109
321) 34 9 8 9
   − 32 1
        28 8
       − 0
         2889
       − 2889
            0
```

```
 321
  × 9
 2889
```

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4

Dividing with a Remainder pg. 109

Suppose you and your friend want to divide 9 polished rocks between you so that you each get the same number of polished rocks. You will each get 4 rocks with 1 rock left over. You can say that the quotient 9 ÷ 2 has a remainder of 1.

EXAMPLE 2 Real World   **FL** 6.NS.2.2

Callie has 1,850 books. She must pack them into boxes to ship to a bookstore. Each box holds 12 books. How many boxes will she need to pack all of the books?

Divide 1,850 by 12.

```
        154 R2
   12) 1,850
      -12
        65
       -60
        50
       -48
         2
```

The quotient is 154, remainder 2. You can write 154 R2.

Reflect

5. **Interpret the Answer** What does the remainder mean in this situation?

    After packing 154 boxes, there will be 2 books left over.

6. **Interpret the Answer** How many boxes does Callie need to pack the books? Explain.

    155; an extra box is needed for the 2 books left over.

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pg. 109

9. A museum gift shop manager wants to put 1,578 polished rocks into small bags to sell as souvenirs. If the shop manager wants to put 15 rocks in each bag, how many complete bags can be filled? How many rocks will be left over? _____ 105 bags; 3 rocks left over

```
        105
   15) 1578
      -15
        07
        -0
         78
        -75
          3
```
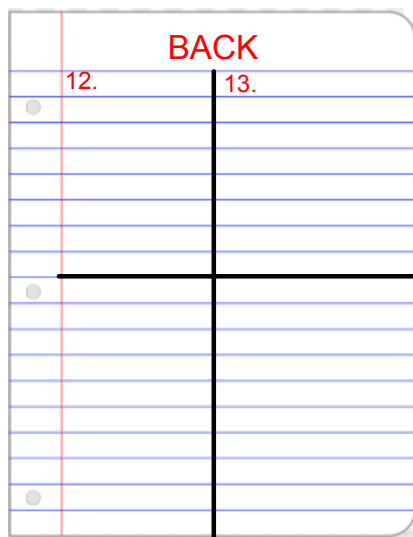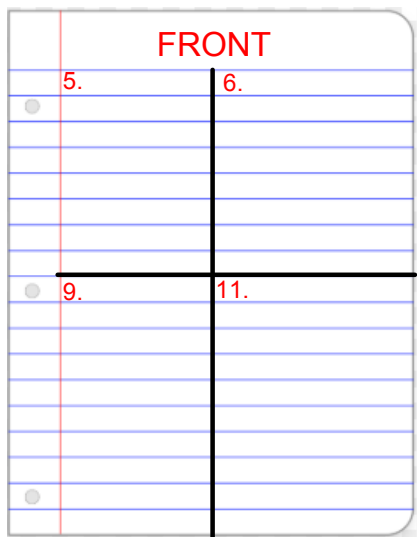
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Homework - textbook page 110

1-3 *(you can work directly on your tb pg)*, 5, 6, 9, 11-13 *(see below)*

In your spiral/comp notebook, you must set up your paper as follows:

Finish Integer test before working on hw

FRONT

5.   6.

9.   11.

BACK

12.   13.

Sep 9-11:04 AM