



**LESSON**  
**6-12**
**Dividing Decimals by Decimals** *continued*


Rename each division problem so the divisor is a whole number. Then solve the equivalent problem using partial-quotients division or another method.



Equivalent Problem

Equivalent Problem

3.  $0.14\overline{)294}$  - \_\_\_\_\_

4.  $0.013\overline{)8.24}$  - \_\_\_\_\_

Quotient = \_\_\_\_\_

Quotient = \_\_\_\_\_

Equivalent Problem

Equivalent Problem

5.  $0.46\overline{)33.58}$  - \_\_\_\_\_

6.  $1.67\overline{)3.36}$  - \_\_\_\_\_

Quotient = \_\_\_\_\_

Quotient = \_\_\_\_\_

## LESSON

## 6•12

## Inequalities

1. Name two solutions of each inequality.

a.  $15 > r$  \_\_\_\_\_

b.  $8 < w$  \_\_\_\_\_

c.  $t > 56$  \_\_\_\_\_

d.  $15 - 11 < p$  \_\_\_\_\_

e.  $\frac{21}{7} > y$  \_\_\_\_\_

f.  $w > -5$  \_\_\_\_\_

g.  $6.5 > 3 + d$  \_\_\_\_\_

h.  $g < 0.5$  \_\_\_\_\_



2. Name two numbers that are far solutions of each inequality.

a.  $(7 + 3) + q > 40$  \_\_\_\_\_

b.  $\frac{1}{2} + \frac{1}{4} < r$  \_\_\_\_\_

c.  $y \leq 2.6 + 4.3$  \_\_\_\_\_

d.  $6 / g > 12$  \_\_\_\_\_

3. Describe the solution set of each inequality.

**Example:**  $t + 5 < 8$

Solution set: All numbers less than 3

*In words*

a.  $8 - y > 8$  Solution set: \_\_\_\_\_

b.  $4b > 8$  Solution set: \_\_\_\_\_

4. Graph the solution set of each inequality.

a.  $x < 5$



b.  $6 > b$



c.  $1\frac{1}{2} > d$



**LESSON**  
**6-12**
**Math Boxes**


1. Find the solution to each equation.

a.  $y + 6 - 20 = 40$        $y =$  \_\_\_\_\_

b.  $45 + 3n = -45$        $n =$  \_\_\_\_\_

c.  $7p + 19 = -2p + 55$        $p =$  \_\_\_\_\_

d.  $7 - 4w = 10w$        $w =$  \_\_\_\_\_

*Spiral*



2. Solve the pan-balance problem.



One  weighs as much

as \_\_\_\_\_ marbles.



3. Complete the table. Then graph the data and connect the points.

Rebecca walks at an average speed of  $3\frac{1}{2}$  miles per hour.

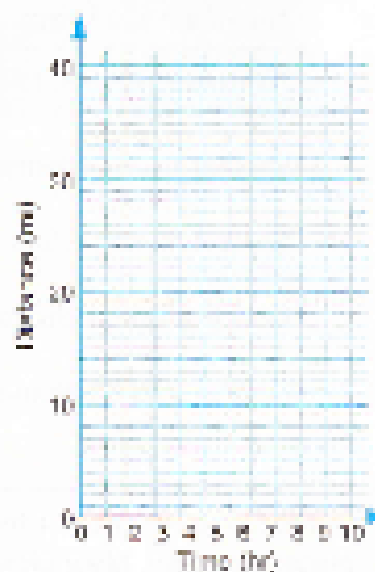
Formula:

Distance =

$3\frac{1}{2}$  mph  $\times$  number of hours

Time (hr) [ $t$ ]	Distance (mi) [ $3\frac{1}{2}t$ ]
1	
2	
7	$17\frac{1}{2}$
	35

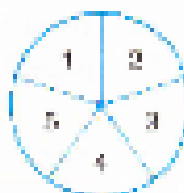
Rebecca's Walks



4. The spinner at the right is divided into 5 equal parts.

Suppose you spin this spinner 75 times. About how many times would you expect the spinner to land on a prime number?

\_\_\_\_\_ times



5. Serena keeps 4 stuffed animals lined up on a shelf over her bed. How many different arrangements of the stuffed animals are possible? (Hint: Label the animals A, B, C, and D. Then make a list.)

\_\_\_\_\_ arrangements

\_\_\_\_\_

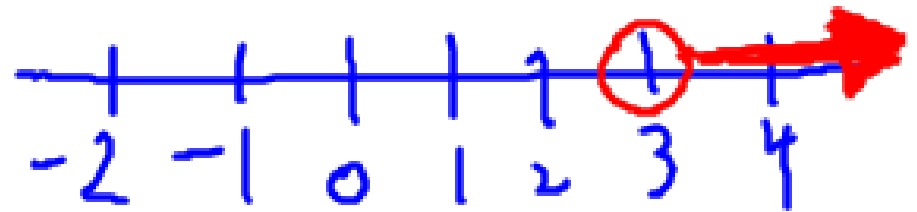
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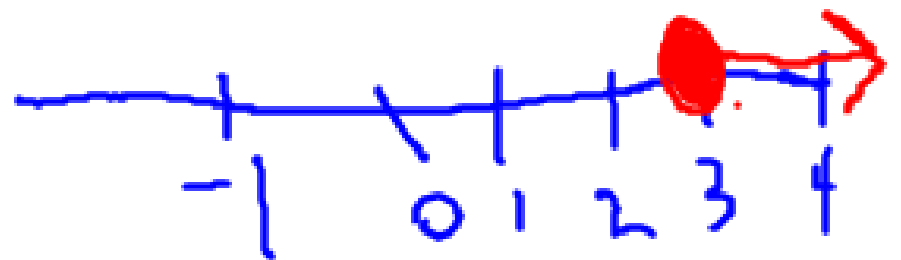
## 6.12 Inequalities

$$x + 3 > 6$$



Open circle means 3 is not part of the solution.

$$x + 3 \geq 6$$

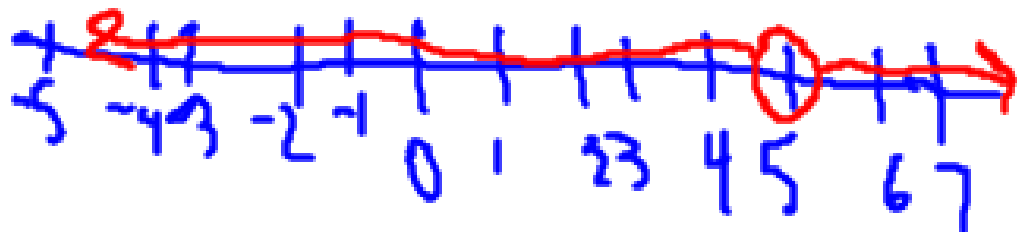


● means 3 is a solution

$$x < 2$$



$$x \neq 5$$



$$x = -5$$



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