Decimal Number Stories

Home Link 8-7

NAME DATE TIME

SRB 166-167

Solve each number story. Write your answer as a decimal.
Show how you found your answer.

1. An Olympic men's shot put weighs 7.26 kilograms. An Olympic women's shot put weighs 4 kilograms. How much more does the men's shot put weigh than the women's shot put?

   _____ kilograms

2. The recipe for homemade glue calls for 0.5 liter of skim milk, 0.09 liter of vinegar, and 0.06 liter of water. When you combine the ingredients, how much liquid will you have?

   _____ liter

3. Ben cut a piece of string 11.4 cm long. Then he cut 3.6 cm off of it. How long is the string now?

   _____ cm

Try This

4. What is the answer to Problem 3 in milliliters? _____ milliliters

Practice

5. 3,579 * 4 = _____

6. 2,904 * 6 = _____

7. 36 * 56 = _____

8. 47 * 72 = _____

Area and Perimeter

Home Link 8-8

NAME DATE TIME

Solve the problems below.

SRE 175-20

(1) The Murphy family bought two rectangular dog beds for their pets. Fluffy's bed was 3 feet by $1\frac{9}{12}$ feet. Pete's bed was 4 feet by $2\frac{4}{12}$ feet.

a. How much more area does Pete's bed have than Fluffy's?

Answer: _____ square feet

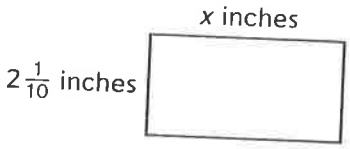
b. What is the perimeter of Pete's bed? Answer: _____ feet

(2) The Cho family bought two rectangular cat beds for their cats. George's bed is 2 feet by $1\frac{2}{12}$ feet. Sammie's bed is 2 feet by $1\frac{7}{12}$ feet.

a. What is the total area of these two beds? Answer: _____ square feet

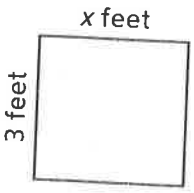
b. What is the perimeter of George's bed? Answer: _____ feet

(3) Perimeter: $12\frac{2}{10}$ inches



Area: _____ square inches

(4) Area: $9\frac{3}{8}$ square feet



Width: _____ feet

Practice

(5) $\frac{5}{6} - \frac{1}{6} =$ _____

(6) $\frac{8}{8} - \frac{3}{8} =$ _____

(7) $\frac{9}{10} - \frac{5}{10} =$ _____

(8) $\frac{11}{12} - \frac{5}{12} =$ _____

Using Doghouse Dimensions

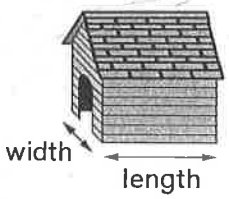
Home Link 8-9

NAME DATE TIME

Dan and Diane's Doghouse Dynasty builds doghouses to order. They can change the length and width for doghouses, but they always build them to have the same height. Solve the number stories about doghouses built to certain widths and lengths based on the information given in the table. Use drawings or equations to show how you solved each problem.

SRB 162, 175

Custom Doghouse Dimensions		
Size	**Length (in feet)**	**Width (in feet)**
Extra small	$3\frac{1}{4}$	$1\frac{1}{3}$
Small	$3\frac{1}{2}$	$1\frac{1}{2}$
Medium	4	$1\frac{3}{4}$
Large	$4\frac{1}{4}$	$1\frac{5}{6}$
Extra large	$4\frac{5}{6}$	2



(1) Mrs. Swift ordered 3 medium-size doghouses. What will their combined width be?

_____ feet

(2) Kisa's Kennel has a space that is 18 feet wide in which they want to place doghouses side by side. If they order 5 small and 4 medium doghouses, will they all fit in the space? _____

Practice

(3) $2 * \frac{3}{6} =$ _____

(4) $5 * \frac{7}{10} =$ _____

(5) $9 * \frac{6}{100} =$ _____

(6) $7 * \frac{8}{12} =$ _____

Liquid Measurement and Fractions

Home Link 8-10

NAME DATE TIME

SRB 196-197

Complete the "What's My Rule?" tables and state the rules.

① Rule: _____

in (gallons)	out (pints)
2	16
$3\frac{1}{2}$	
	48
$7\frac{1}{4}$	
	80

② Rule: _____

in (quarts)	out (cups)
3	12
$4\frac{1}{2}$	
	32
$9\frac{3}{4}$	
$12\frac{1}{4}$	

Use this recipe for a Creamsicle Smoothie to solve the problems below.

$\frac{3}{4}$ cup orange juice 4 fluid ounces cold water 1 cup vanilla ice cream

Combine all ingredients.

③ **a.** Will this recipe fit in a glass that holds 24 fluid ounces? _____

Explain your thinking. _____

_____

b. About how many more cup(s) of smoothie could fit in the glass? _____ cup(s)

c. Frank wants to triple the recipe. How much of each ingredient will he need?

_____ orange juice

_____ cold water

_____ vanilla ice cream

d. After tripling the recipe, how much smoothie will Frank have? _____ fluid ounces

Practice

④ $3{,}560 \div 3 \rightarrow$ _____

⑤ $9{,}295 \div 5 \rightarrow$ _____

⑥ $7\overline{)8{,}210}$

⑦ $9\overline{)4{,}671}$

Planning a Cookout

Home Link 8-11

NAME DATE TIME

The Whispering Lakes Neighborhood Association is having a hamburger cookout. Each family can choose whether to order the hamburgers or bring their own. Use the information in the table to solve the number stories. Use drawings, tables, or equations to show what you did.

Size of Hamburger	Weight of One Hamburger Patty (lb)
Small	$\frac{1}{8}$
Medium	$\frac{1}{4}$
Large	$\frac{1}{2}$
Jumbo	$\frac{3}{4}$
King of the Burgers	$1\frac{1}{2}$

SRB 190-191

(1) **a.** What is the combined weight of 1 of each size hamburger?

_____ pounds

b. How many ounces is that?

_____ ounces

c. Mrs. Ward found 80-ounce packages of hamburger on sale. If she needs to make 2 of each size hamburger, how many packages of meat will she need to buy?

_____ packages

(2) The Finch family ordered 2 small hamburgers, 1 medium hamburger, and 1 jumbo hamburger. How many pounds of hamburger meat does the neighborhood association need to buy for this family?

_____ pounds

Practice

(3) $5{,}107 * 3 =$ _____

(4) $4{,}794 * 6 =$ _____

(5) $74 * 29 =$ _____

(6) $93 * 48 =$ _____

Number-Tile Computations

Home Link 8-12

NAME DATE TIME

Cut out the 0–9 number tiles at the bottom of the page. Use them to help you solve the problems. Each of the 20 tiles can only be used once.

SRB 92-95

① Use odd-numbered tiles 1, 3, 5, 7, and 9 to make the largest sum.

$$\square\square\square + \square\square = \underline{\quad\quad}$$

② Use even-numbered tiles 0, 2, 4, 6, and 8 to make the smallest difference.

$$\square\square\square - \square\square = \underline{\quad\quad}$$

③ Use number tiles 0, 4, 6, and 8 to make the largest product.

$$\square\square * \square\square = \underline{\quad\quad}$$

④ Use number tiles 1, 2, 5, and 7 to make the smallest whole-number quotient. The answer may have a remainder.

$\square\square\square / \square \rightarrow$ _____

⑤ Answer the following questions using only the unused tiles and any operation. Write number sentences to show your work.

a. What is the largest answer you can find? _____

$\square \_\_ \square = \_\_$

b. What is the smallest answer you can find? _____

$\square \_\_ \square = \_\_$

Practice

⑥ $4\frac{3}{5} + 3\frac{4}{5} =$ _____

⑦ $1\frac{5}{8} + 3\frac{5}{8} =$ _____

⑧ $2\frac{9}{12} + 4\frac{5}{12} =$ _____

⑨ $5\frac{89}{100} + 5\frac{92}{100} =$ _____

0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9

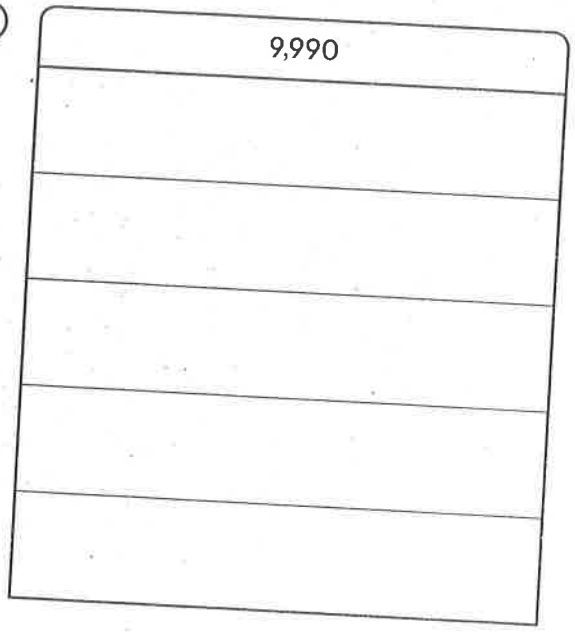
Many Names for Numbers

Home Link 8-13

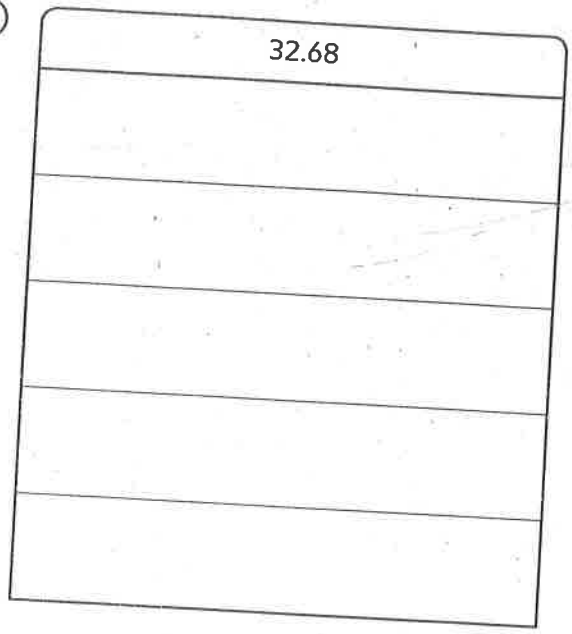
NAME DATE TIME

Write five names in each box below. Use as many different kinds of numbers (such as whole numbers, fractions, decimals) and different operations (+, −, *, ÷) as you can. SRB 33

① 9,990

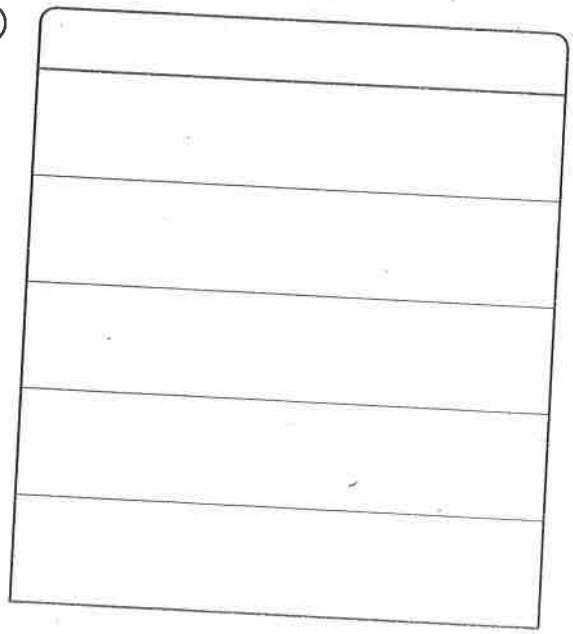


② 32.68

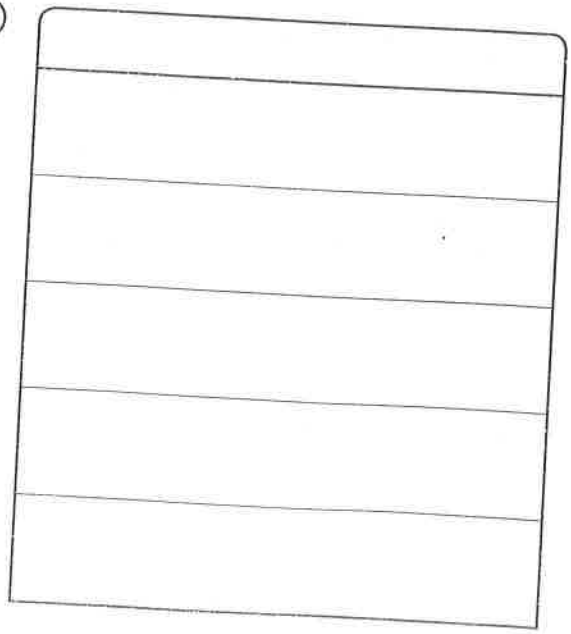


Make up your own name-collection boxes.

③



④



Practice

⑤ $5\frac{1}{4} - 1\frac{3}{4} =$ _____

⑥ $4\frac{3}{10} - 2\frac{7}{10} =$ _____

⑦ $6\frac{7}{12} - 3\frac{11}{12} =$ _____

⑧ $8\frac{1}{6} - 4\frac{5}{6} =$ _____