

# Computing with Time and Money

Write the measurement units or numbers.

1 3 feet + 5 feet = \_\_\_\_\_ inches

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2 4 \_\_\_\_\_ + 11 \_\_\_\_\_ = 59 \_\_\_\_\_

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3 2 \_\_\_\_\_ + 20 minutes = 140 \_\_\_\_\_

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4 2 \_\_\_\_\_  $\times$  2 = 240 \_\_\_\_\_

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5 6 \_\_\_\_\_ + 4 \_\_\_\_\_ = \$0.64

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6 10 \_\_\_\_\_  $\times$  10 = \$1.00

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7 8 hours  $\times$  3 = \_\_\_\_\_ minutes

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8 3 \_\_\_\_\_ + 5 \_\_\_\_\_ = 26 \_\_\_\_\_

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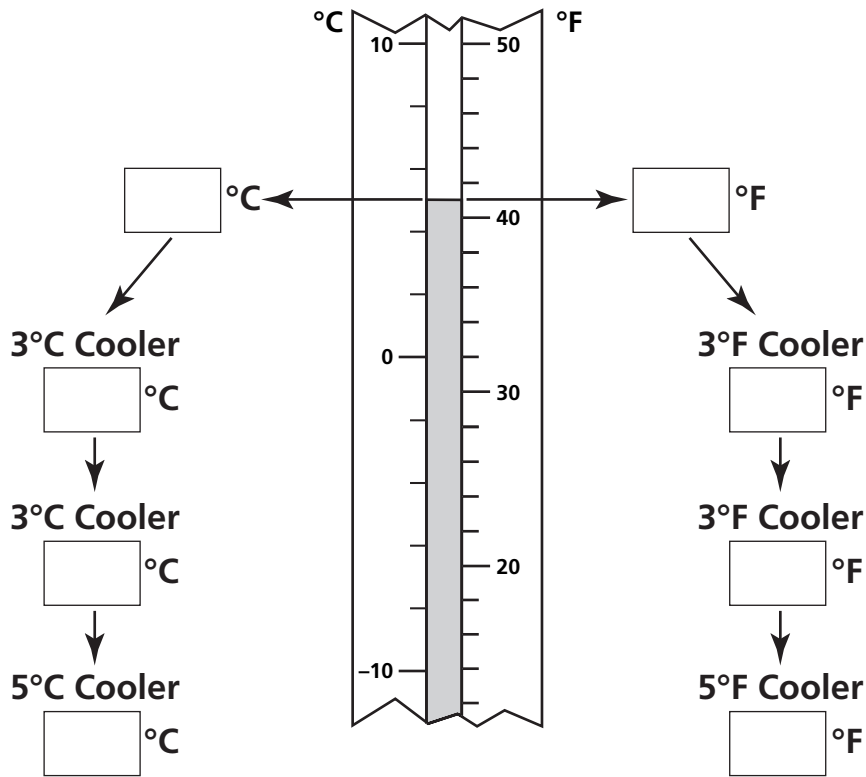
9 54 \_\_\_\_\_ - 2 \_\_\_\_\_ = 40 \_\_\_\_\_

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# Measuring Temperature

This thermometer has two different units of measure.

Use the picture to help you find the answers.



Which is colder, your final temperature in °C or your final temperature in °F? Explain your answer.

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# Measuring Length

1 Write  $<$ ,  $>$ , or  $=$ .

$15 \text{ inches } \bigcirc 1\frac{1}{2} \text{ feet}$

$\frac{5}{12} \text{ foot } \bigcirc 3 \text{ inches}$

$\frac{2}{7} \text{ foot } \bigcirc \frac{5}{7} \text{ foot}$

$\frac{1}{6} \text{ foot } \bigcirc \frac{3}{12} \text{ foot}$

$36 \text{ inches } \bigcirc 3 \text{ feet}$

$1 \text{ yard } \bigcirc 2\frac{2}{3} \text{ feet}$

2 Solve.

Jason measured the lengths of the walls in our rectangular classroom. One wall was 13 feet 5 inches long, and another wall was 17 feet 3 inches long.

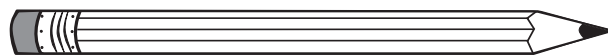
What was the perimeter of the classroom floor?

Explain how you found your answer.

\_\_\_\_\_ feet \_\_\_\_\_ inches

3 Solve.

Juanita wants to find the length of her pencil. She knows that the paper clip is 1 inch long, and that the string is  $2\frac{1}{2}$  paper clips long. She also knows that the string is half the length of the pencil. How long is her pencil? Explain how you found your answer.



# Measuring in Inches, Feet, and Yards

Write the measurement numbers or units.

1  $2\frac{2}{3}$  feet = \_\_\_\_\_ inches

2  $3\frac{1}{2}$  yards =  $10\frac{1}{2}$  \_\_\_\_\_

3 1.5 yards = \_\_\_\_\_ inches

4  $4\frac{1}{2}$  yards = \_\_\_\_\_

5  $3\frac{1}{4}$  feet = \_\_\_\_\_ inches

6 5 feet = \_\_\_\_\_ yards

7 50 inches = \_\_\_\_\_ feet

8  $3\frac{3}{4}$  yards = \_\_\_\_\_

9  $1\frac{1}{3}$  feet = 16 \_\_\_\_\_

10 6.5 feet = \_\_\_\_\_ inches

11  $2\frac{1}{4}$  yards = \_\_\_\_\_

12 42 inches =  $1\frac{1}{6}$  \_\_\_\_\_

13 54 inches = \_\_\_\_\_

14 7 feet 6 inches = \_\_\_\_\_ yards

# Measuring Length in Centimeters

Complete the tables.

1

Meters	1	2	3	4	5	6	7	8
Centimeters								

2

Meters	5	10	15	20	25	30	35	40
Centimeters								

3

Meters	0	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
Centimeters								

4

Kilometers	1	2	3	4	5	6	7	8
Meters	1,000							

5

Kilometers	2	4	6	8	10	12	14	16
Meters								

6

Kilometers	0	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
Meters								

# Measuring Capacity in Cups, Pints, and Quarts

Andre is trying to measure various amounts, but he has only the following containers:

- a bowl that holds exactly 3 cups of liquid
- a 1-pint container
- a  $1\frac{1}{2}$ -cup mug

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1 How can Andre accurately measure 1 cup of milk?

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2 How can Andre accurately measure  $2\frac{1}{2}$  cups of milk?

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# Measuring Capacity in Gallons and Liters

Circle the larger amount.

1 4 cups or 1 pint

2 1 gallon or 10 cups

3 1 gallon or  $2\frac{1}{2}$  pints

4  $2\frac{1}{2}$  pints or  $1\frac{1}{2}$  quarts

5  $1\frac{7}{8}$  cups or  $1\frac{1}{9}$  pints

6  $15\frac{7}{9}$  cups or 1 gallon

7  $\frac{1}{2}$  gallon or 2 liters

8 10 pints or  $4\frac{1}{2}$  quarts

9  $3\frac{1}{4}$  pints or  $1\frac{1}{2}$  quarts

10  $4\frac{1}{4}$  quarts or  $15\frac{3}{4}$  cups

11 Fill in the missing numbers.

1 cup = \_\_\_\_\_ pint = \_\_\_\_\_ quart = \_\_\_\_\_ gallon

2 cups = \_\_\_\_\_ pint = \_\_\_\_\_ quart = \_\_\_\_\_ gallon

3 cups = \_\_\_\_\_ pints = \_\_\_\_\_ quart = \_\_\_\_\_ gallon

4 cups = \_\_\_\_\_ pints = \_\_\_\_\_ quart = \_\_\_\_\_ gallon

# Computing Amounts of Liquid

- 1 Convert this recipe so that the amounts are in cups.

1 quart orange juice = \_\_\_\_\_ cups orange juice

3 pints grapefruit juice = \_\_\_\_\_ cups grapefruit juice

$\frac{1}{2}$  quart pineapple juice = \_\_\_\_\_ cups pineapple juice

$\frac{1}{2}$  pint papaya juice = \_\_\_\_\_ cup papaya juice

- 2 Complete this table so that each column contains equivalent amounts.

<b>Cups</b>	1	2	3					8	
<b>Pints</b>	$\frac{1}{2}$				$2\frac{1}{2}$				
<b>Quarts</b>	$\frac{1}{4}$			1		$1\frac{1}{2}$	$1\frac{3}{4}$		10

- 3 Solve.

Allen drank 1 liter of water, Josh drank 2 pints of water, and Alex drank 3 cups of water. Praveen drank the least water and Ross drank the most. How much water might Ross and Praveen have had?

Ross:

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Praveen:

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# Measuring Weight in Ounces, Pounds, and Tons

Use a calculator to solve each problem.

There are 60 seconds in a minute.

1 How many seconds are in an hour? \_\_\_\_\_

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2 How many seconds are in a day? \_\_\_\_\_

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3 How many seconds are in a week? \_\_\_\_\_

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4 How many seconds are in a year? \_\_\_\_\_

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A bag of chips weighs 8 ounces.

5 How many bags of chips weigh 10 pounds? \_\_\_\_\_

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6 How many bags of chips weigh 1,000 pounds? \_\_\_\_\_

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7 How many bags of chips weigh 1 ton? \_\_\_\_\_

# Measuring Weight in Grams and Kilograms

Compare. Fill in  $>$ ,  $<$ , or  $=$ .

1 1 gram  1 pound

2 2 kilograms  2 pounds

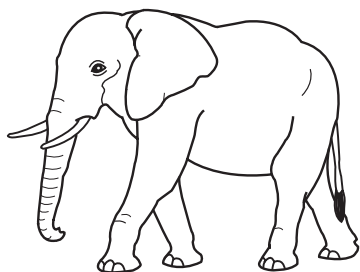
3 10 grams  1 ounce

4 1 kilogram  1 ton

5 15 ounces   $\frac{1}{2}$  kilogram

6 2 tons  3,082 pounds

7 Is the weight reasonable? Circle *yes* or *no*.  
If you circle *no*, give a reasonable weight.

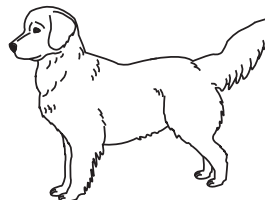


10 pounds

yes or no

Reasonable weight

\_\_\_\_\_



1 ton

yes or no

Reasonable weight

\_\_\_\_\_



8 ounces

yes or no

Reasonable weight

\_\_\_\_\_



7 pounds

yes or no

Reasonable weight

\_\_\_\_\_