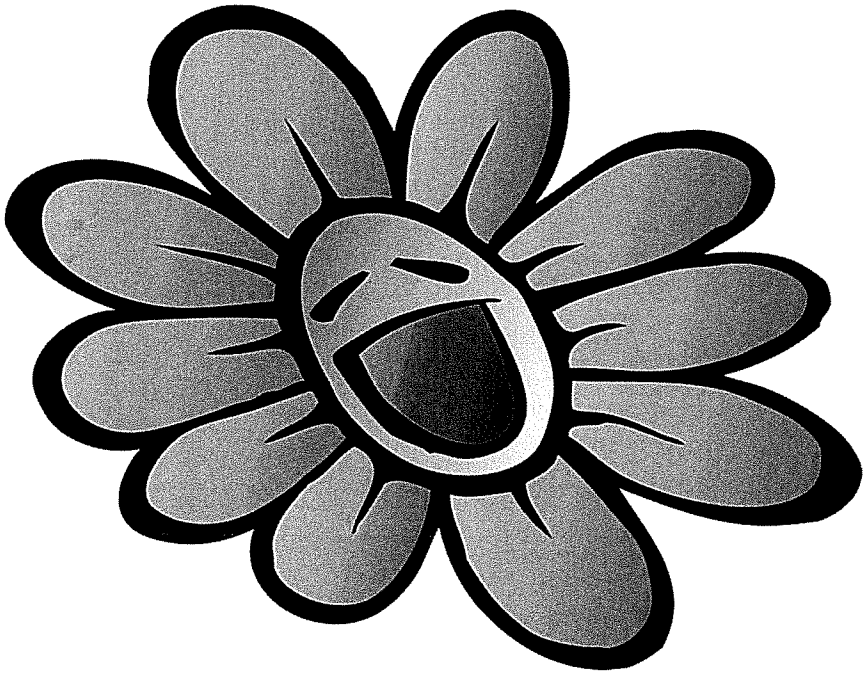
5th Grade Math

Week of April 26 - April 30, 2021



Name _____

* Please do not complete until advised by teacher*

Michele is 52 inches tall. Her father is 6 feet 3 inches tall. Exactly how many inches taller is Michele's father than Michele?

A 11

B 13

C 23

D 25

Penelope made a paper chain that was 6 feet 10 inches long. What was the length, in inches, of the paper chain?

A 82

B 72

C 60

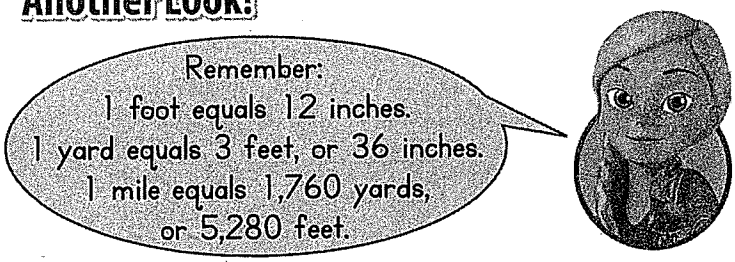
D 28

Name _____

Practice Video Tools Games

Additional Practice 12-1
Convert Customary Units of Length

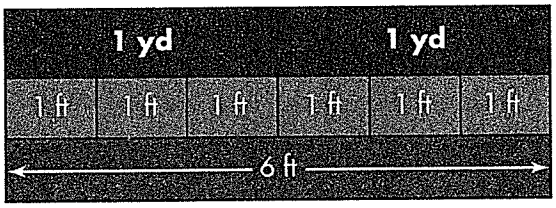
Another Look!



How to change from one customary unit of length to another:

Converting from a smaller unit to a larger unit:

6 feet = _____ yards

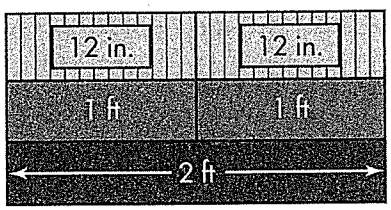


You know 3 ft = 1 yd. **Divide** 6 ÷ 3.

So, 6 ft = 2 yd.

Converting from a larger unit to a smaller unit:

2 feet = _____ inches



You know 1 ft = 12 in. **Multiply** 2 × 12.

So, 2 ft = 24 in.

In **1–9**, convert each unit of length.

1. 12 ft = _____ yd

2. 2 mi = _____ yd

3. 46 in. = _____ ft _____ in.

4. 7 ft = _____ in.

5. 3 mi = _____ ft

6. 108 in. = _____ ft

7. 72 in. = _____ yd

8. 2 ft 3 in. = _____ in.

9. 45 in. = _____ yd _____ in.

In **10–15**, compare lengths. Write >, <, or = for each ◯.

10. 64 in. ◯ 5 ft

11. 2 mi ◯ 3,333 yd

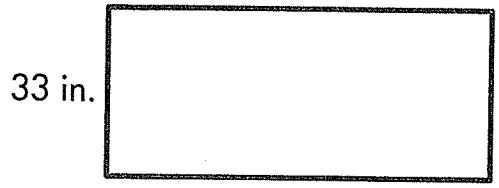
12. 36 yd 2 ft ◯ 114 ft 2 in.

13. 9 yd ◯ 324 in.

14. 4 ft 7 in. ◯ 56 in.

15. 25 ft ◯ 8 yd 11 in.

16. Find the perimeter of the rectangle in yards.

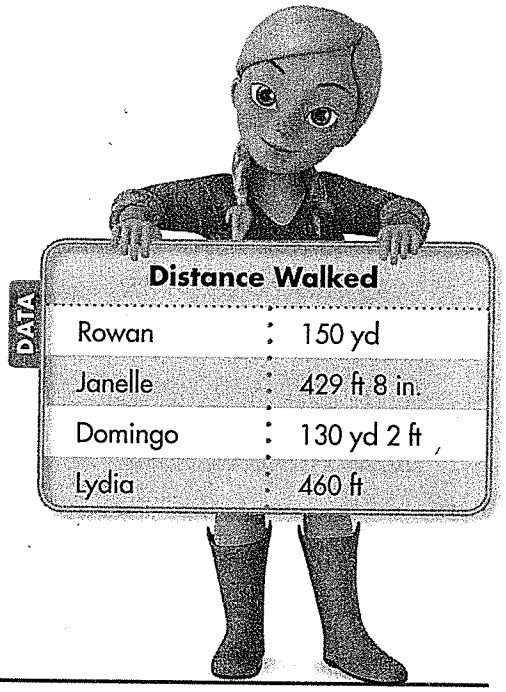


17. Lucy wants to make different types of cheesecake. Each cheesecake uses $\frac{2}{3}$ pound of cream cheese. She has 2 pounds of cream cheese. How many cheesecakes can she make?

For **18** and **19**, use the table.

18. Four friends each took a different path walking from the lunchroom to the gymnasium. The table shows the distance that each of them walked. Who walked the farthest?

19. Write the distance Domingo walked in feet and in inches.



20. Be Precise Jordan is 4 feet 8 inches tall. Her mother is 5 feet 10 inches tall. How much taller is Jordan's mother than Jordan? Give your answer in feet and inches.

21. Higher Order Thinking How can you find the number of inches in 1 mile? Show your work.

Assessment Practice

22. Select all of the measurements greater than 100 inches.

- ☐ 8 feet 6 inches
- ☐ 8 feet
- ☐ 3 yards
- ☐ 2 yards 19 inches

23. Select all of the measurements less than 4 yards.

- ☐ 143 inches
- ☐ 47 feet
- ☐ 12 feet
- ☐ 11 feet

The table below lists the capacity, in quarts, of four different fish tanks at a pet store.

FISH TANK CAPACITY

Fish Tank	Capacity (quarts)
Pacific	240
Fresh	15
Tropic	120
Bahama	60

Which fish tank has a capacity of 60 gallons?

A Pacific

B Fresh

C Tropic

D Bahama

Nellie has a watering can that contains 20 cups of water. She pours one quart of water on each plant in her yard. If Nellie uses all of the water in the watering can, how many plants does she water?

A 4

B 5

C 10

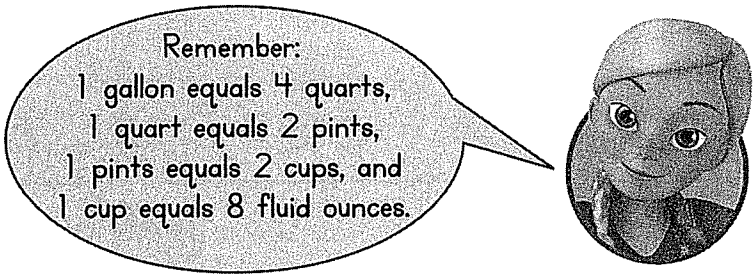
D 80

Name _____

Practice Video Tools Games

Additional Practice 12-2
Convert Customary Units of Capacity

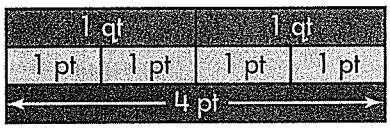
Another Look!



How to change from one customary unit of capacity to another:

Converting from a smaller unit to a larger unit:

4 pints = _____ quarts



Operation: Divide.

You know 2 pt = 1 qt.

Find 4 ÷ 2; 4 pt = 2 qt.

Converting from a larger unit to a smaller unit:

2 gallons = _____ quarts

Operation: Multiply.

You know 1 gal = 4 qt.

Find 2 × 4; 2 gal = 8 qt.

1. Convert 2 quarts to fluid ounces. Write in the missing amounts.

2 quarts = ____ pints ____ pints = 8 cups ____ cups = ____ fluid ounces

In **2–13**, convert each unit of capacity.

2. 14 fl oz = _____ c

3. 8 gal = _____ qt

4. $3\frac{1}{4}$ pt = _____ fl oz

5. $\frac{1}{4}$ c = _____ pt

6. $6\frac{1}{4}$ qt = _____ pt

7. 28 c = _____ qt

8. 2 qt = _____ pt

9. 5 c = _____ pt _____ c

10. 3 gal = _____ pt

11. 96 fl oz = _____ c

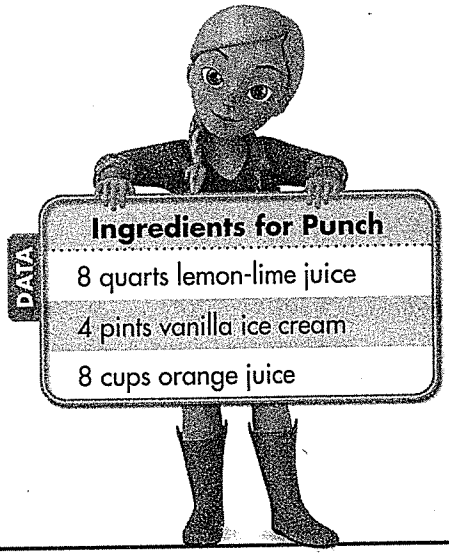
12. 4 qt = _____ c

13. $8\frac{1}{4}$ pt = _____ c

14. Number Sense Estimate the number of pints in 445 fluid ounces. Explain your work.

15. If you needed only 1 cup of milk, what is your best choice at the grocery store—a quart container, a pint container, or a $\frac{1}{2}$-gallon container?

In **16** and **17**, use the recipe.

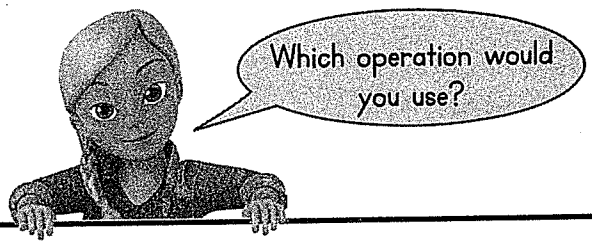


16. Sadie is making punch. How many more quarts of lemon-lime juice will she use than orange juice?

17. Higher Order Thinking How many gallons of punch will Sadie make?

18. Callie bought 2 gallons of juice for $2.58 per gallon. She sold the juice in 1-cup servings for $0.75 each. Each serving is $\frac{1}{16}$ gallon. How much more did she get for selling the juice than she paid to buy it? Tell how you found the answer.

19. Reasoning How would you convert a measurement given in fluid ounces into pints?



Assessment Practice

20. Choose all measurements that are equal to 4 quarts.

- ☐ 2 gallons
- ☐ 2 pints
- ☐ 8 pints
- ☐ 16 cups
- ☐ 48 fl oz

21. Choose all statements that are true.

- ☐ 7 pints > 2 quarts
- ☐ 4 pints 1 cup > 10 cups
- ☐ 1 quart > 40 fl oz
- ☐ 1 gallon < 8 pints 1 cup
- ☐ 8 quarts = 32 gallons

A state fair held a heaviest-pumpkin contest. The winning pumpkin weighed 2,050 pounds. What is the weight, in ounces, of the winning pumpkin?

A 8,200

B 16,400

C 24,600

D 32,800

What number goes in the blank to make the statement below true?

3,840 ounces = _____ pounds

A 24

B 240

C 480

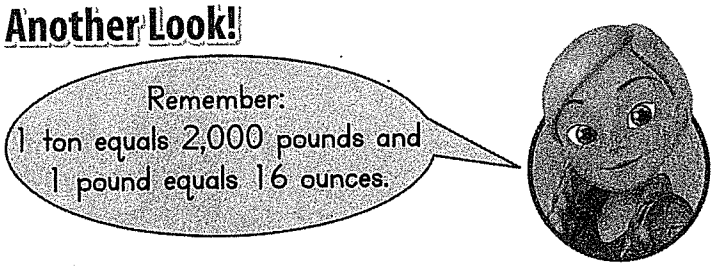
D 61,440

Name _____

Practice Video Tools Games

Additional Practice 12-3
Convert Customary Units of Weight

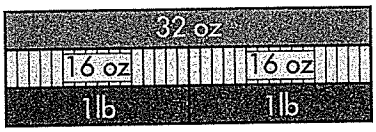
Another Look!



How to change from one unit of weight to another:

Converting from a smaller unit to a larger unit:

32 ounces = _____ pounds

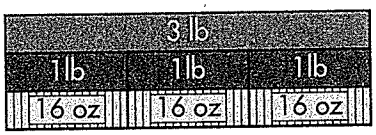


You know 16 oz = 1 lb, so divide.

Find 32 ÷ 16; 32 oz = 2 lb.

Converting from a larger unit to a smaller unit:

3 pounds = _____ ounces



You know 1 lb = 16 oz, so multiply.

Find 3 × 16; 3 lb = 48 oz.

In **1–6**, convert each unit of weight.

1. 4 T = _____ lb

2. 5 lb = _____ oz

3. 5,500 lb = _____ T

4. $2\frac{1}{2}$ lb = _____ oz

5. 90 lb = _____ oz

6. 224 oz = _____ lb

In **7–12**, compare. Write >, <, or = for each ◯.

7. 16 lb ◯ 16 oz

8. 1,500 lb ◯ 2 T

9. 3 T ◯ 5,999 lb

10. 1,600 oz ◯ 10 lb

11. 19 lb ◯ 300 oz

12. 8 oz ◯ $\frac{1}{2}$ lb

In **13** and **14**, complete each table to show equivalent measures.

13.

pounds	2,000	3,000	
tons			3

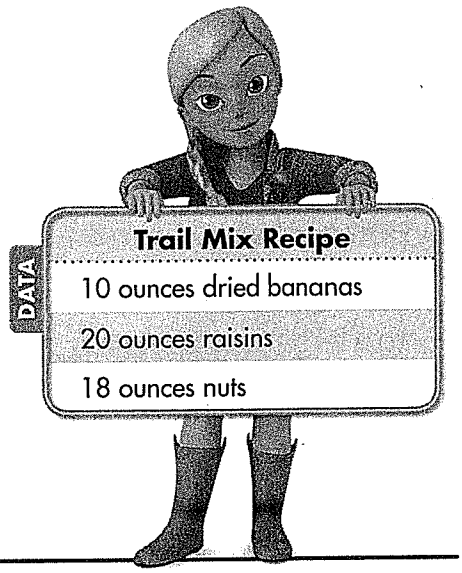
14.

ounces	16	48	
pounds			10

In **15** and **16**, use the recipe.

15. Aaron bought these ingredients to make the trail mix recipe. How many pounds of trail mix will he make?

16. Model with Math Aaron wants to divide the trail mix equally into 6 bags to give to his friends. How much trail mix will be in each bag? Draw a bar diagram and write an equation to help you find the answer.



17. Number Sense A candy maker buys a bar of chocolate weighing 162 ounces. About how many pounds does the bar weigh?

18. Higher Order Thinking Karla bought 2 pounds of broccoli, $1\frac{3}{4}$ pounds of green beans, and 10 ounces of kale. How much do Karla's vegetables weigh in all? Write your answer two different ways.

19. Students visited a zoo where they learned that a large white rhinoceros could weigh as much as 6,000 pounds. How many tons is this?

20. Algebra Complete the table. Write the expression that can be used to find the missing value in the second row.

n	12	15	21	28
$n +$ __	18	21	27	

Assessment Practice

21. Part A

Paula's kitten weighs $3\frac{1}{2}$ pounds. Write this weight using pounds and ounces.

____ pounds ____ ounces

Part B

Explain how you found your answer.

Min wants to make 100 name tags with ribbons attached to them. Each name tag requires five centimeters of ribbon. She has 3.25 meters of ribbon. Exactly how many more centimeters of ribbon does Min still need to make 100 name tags?

A 175

B 305

C 325

D 825

Name _____ Practice Video Tools Games

Additional Practice 12-4
Convert Metric Units of Length

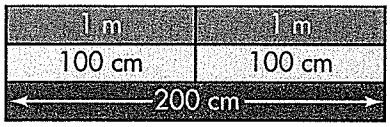
Another Look!

Remember:
1 km = 10^3 m = 1,000 m
1 m = 10^2 cm = 100 cm
1 m = 10^3 mm = 1,000 mm
1 cm = 10 mm

How to change from one metric unit of length to another:

Converting a length from a smaller to a larger metric unit:

200 centimeters = _____ meters

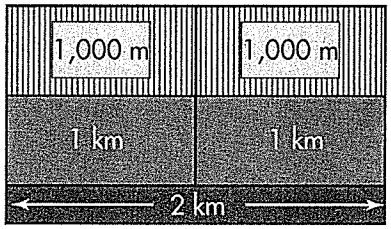


You know 10^2 cm = 1 m, so divide.

Find 200 ÷ 100; 200 cm = 2 m.

Converting a length from a larger to a smaller metric unit:

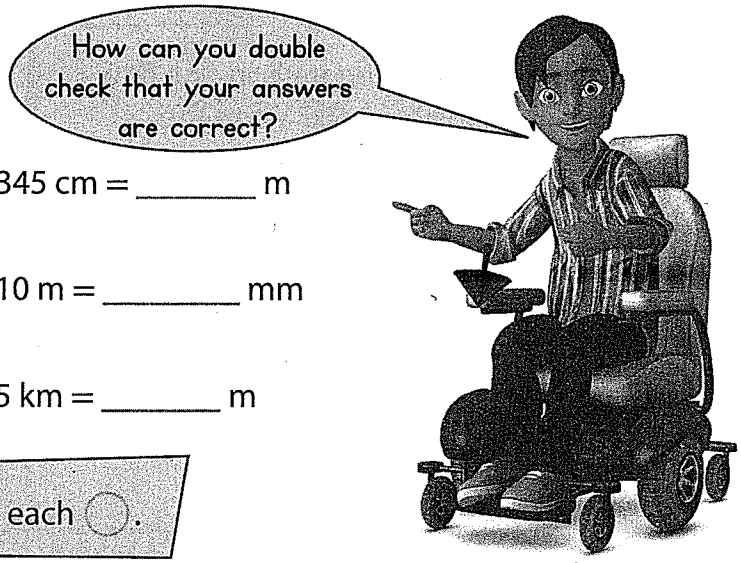
2 kilometers = _____ meters



You know 1 km = 10^3 m, so multiply.

Find 2 × 1,000; 2 km = 2,000 m.

In **1–6**, convert each unit of length.



1. 25 m = _____ cm

2. 345 cm = _____ m

3. 4.5 m = _____ cm

4. 10 m = _____ mm

5. 987 mm = _____ cm

6. 5 km = _____ m

In **7–9**, compare lengths. Write >, <, or = for each ◯.

7. 3 km ◯ 5,000 m

8. 800 cm ◯ 8 m

9. 38.5 mm ◯ 10 cm

In **10** and **11**, complete each table to show equivalent measures.

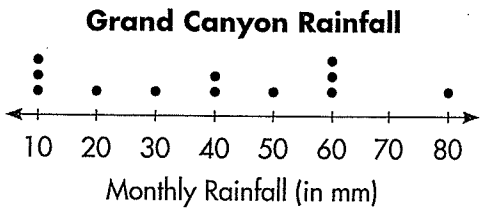
10.

mm	5	85	
cm			90

11.

km	0.4		25
m		7,000	

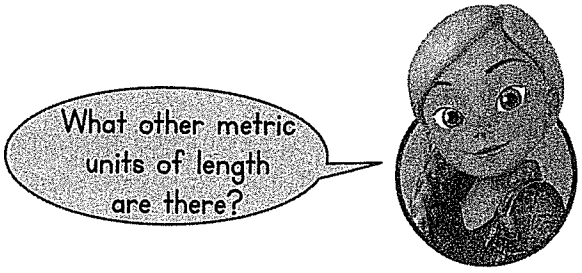
12. Higher Order Thinking Park rangers at the North Rim of the Grand Canyon recorded the amounts of rainfall over 12 months. What was the total amount of rainfall in centimeters?



13. What is the difference between the greatest and least amounts of monthly rainfall? Write an equation to model your work.

14. Arturo builds a cube that measures 5 inches on each side. What is the volume of Arturo's cube? Write an equation to show your work.

15. Use Structure List three measurements with different units that are equal to 5 meters.



16. If you walked all three trails in one day, how far would you walk? Write the answer in meters and in kilometers.

DATA

Trail	Length
Spring Hollow	2 km
Brookside	2,400 m
Oak Ridge	1 km 600 m

17. Explain how you can move the decimal point to convert 3,200 meters to kilometers.

Assessment Practice

18. Cory finds a leaf that is 5 cm long. Which measurement is equivalent to 5 cm?

Ⓐ 0.05 mm
Ⓑ 0.5 mm
Ⓒ 50 mm
Ⓓ 500 mm

19. Which of these number sentences is **NOT** true?

Ⓐ 4,000,000 mm = 4 km
Ⓑ 300 mm > 3 cm
Ⓒ 5 m > 5,000 mm
Ⓓ 2,000 m < 20 km

Lori and Maria bought juice to make fruit punch. Maria bought 5 bottles of juice, each containing 750 milliliters. Lori bought 4 liters of juice. Based on this information, which sentence is true?

A Lori bought 0.25 liter more juice than Maria.

B Maria bought 0.75 liter more juice than Lori.

C Maria bought 33.5 liters more juice than Lori.

D Lori bought 36.25 liters more juice than Maria.

A science teacher has 0.4 liter of seawater. She gives each of her 22 students a container and a 5-milliliter spoon. She then asks her students to put two spoonfuls of seawater into their containers. How many milliliters of seawater will be left after all 22 students have filled their containers?

A 70

B 180

C 290

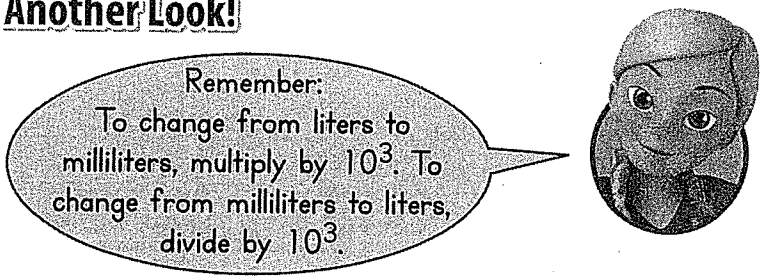
D 780

Name _____

Practice Video Tools Games

Additional Practice 12-5
Convert Metric Units of Capacity

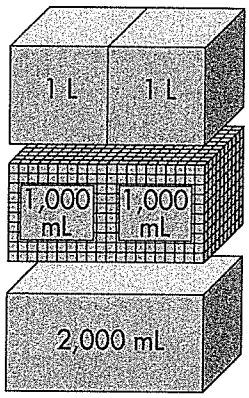
Another Look!



How to change from one metric unit of capacity to another:

Converting a capacity from a smaller to a larger metric unit:

2,000 milliliters = _____ liters

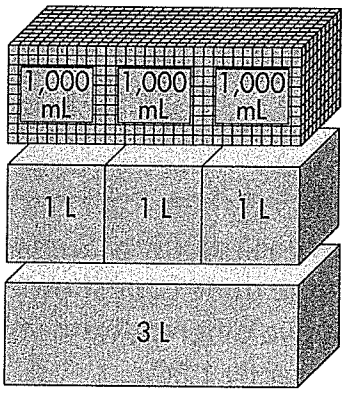


You know 10^3 mL = 1 L, so divide.

Find 2,000 ÷ 1,000; 2,000 mL = 2 L.

Converting a capacity from a larger to a smaller metric unit:

3 liters = _____ milliliters



You know 1 L = 10^3 mL, so multiply.

Find 3 × 1,000; 3 L = 3,000 mL.

In **1–9**, convert each unit of capacity.

1. 5 L = _____ mL

2. 13,000 mL = _____ L

3. 1.6 L = _____ mL

4. 4,750 mL = _____ L

5. 950 mL = _____ L

6. 0.4 L = _____ mL

7. 2.7 L = _____ mL

8. 8,400 mL = _____ L

9. 0.071 L = _____ mL

In **10** and **11**, complete each table to show equivalent measures.

10.

liters	90	9	0.9
milliliters			

11.

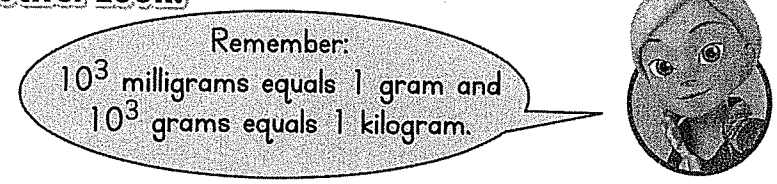
milliliters	250	2,500	25,000
liters			

Name _____

Practice Video Tools Games

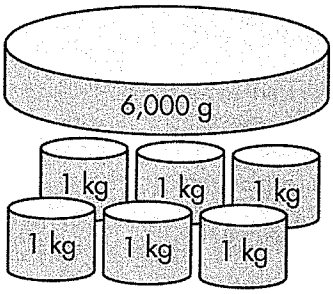
Additional Practice 12-6
Convert Metric Units of Mass

Another Look!



How to convert from one metric unit of mass to another:

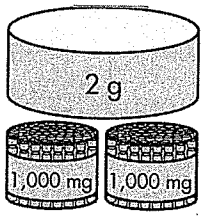
Smaller metric unit to a larger unit:
6,000 grams = ____ kilograms



You know 10^3 g = 1 kg, so divide.

Find 6,000 ÷ 1,000; 6,000 g = 6 kg.

Larger metric unit to a smaller unit:
2 grams = ____ miligrams



You know 1 g = 10^3 mg, so multiply.

Find 2 × 1,000; 2 g = 2,000 mg.

In **1–6**, convert each unit of mass.

1. 72 g = _____ mg

2. 8,000 g = _____ kg

3. 2,000 mg = _____ kg

4. 490 g = _____ kg

5. 0.648 g = _____ mg

6. 0.061 kg = _____ g

In **7–12**, compare. Write >, <, or = for each ◯.

7. 4,000 mg ◯ 5 g

8. 64 kg ◯ 64,000 g

9. 3 kg ◯ 40,000 mg

10. 6,000 g ◯ 6 kg

11. 93 g ◯ 92,000 mg

12. 90 kg ◯ 90,000 mg

In **13** and **14**, complete each table to show equivalent measures.

13.

grams	2		200
milligrams		20,000	

14.

grams		1,000	
kilograms	0.1		10

Standards Review

8 Casey has $162.41. She spends $48.55 at the grocery store, $22.95 at the shoe store, and $65.72 at the clothing store. How much money does she have left?

A $15.67

B $25.19

C $37.22

D $44.77

9 A car gets an average of 15.2 miles per gallon. Using this average, how many miles can the car travel using 8.7 gallons of gas?

A 6.5 miles

B 23.9 miles

C 132.24 miles

D 158.72 miles

10 A 24-pack of granola bars costs $3.65. Rounded to the nearest penny, what is the cost per granola bar?

A $0.12

B $0.15

C $0.24

D $0.36

6 Kelsey placed small wooden cube-shaped blocks on top of each other to create a tower. Each block is the same size. The height of the tower was 19.5 inches. If Kelsey used 26 blocks to build the tower, what was the edge length of each block?

A 0.75 inches

B 1.25 inches

C 3.75 inches

D 7.25 inches

7 Solve the equation below.

$$\frac{3.26 + 4.08 + 3.80}{3}$$

A 3.26

B 3.71

C 10.42

D 11.14

8 One pound of grapes costs $1.24. How much does 4.5 pounds of grapes cost?

A $3.26

B $3.63

C $5.58

D $5.74

8 A walnut pecan cookie recipe calls for $1\frac{1}{2}$ cups of walnuts and $1\frac{2}{3}$ cup pecans. How many cups of nuts are needed for the recipe?

A $\frac{1}{3}$ cup

B $2\frac{1}{2}$ cups

C $3\frac{1}{6}$ cups

D $3\frac{1}{5}$ cups

9 Anna is $48\frac{5}{8}$ inches tall. Kevin is $52\frac{1}{4}$ inches tall. How much taller is Kevin than Anna?

A $3\frac{5}{8}$ inches

B $3\frac{7}{8}$ inches

C $4\frac{1}{2}$ inches

D $4\frac{7}{8}$ inches

10 The table shows the amount of time Greg spent practicing the clarinet last week.

Day	Time (hours)
Monday	$\frac{4}{5}$
Wednesday	$\frac{3}{4}$
Friday	$\frac{1}{2}$

What was the total amount of time Greg spent practicing the clarinet last week?

A $\frac{8}{11}$ hour

B $1\frac{3}{8}$ hours

C $2\frac{1}{20}$ hours

D $2\frac{2}{11}$ hours

4 Fiona has $2\frac{1}{4}$ fitness bars. She gives Josh $\frac{1}{2}$ bar and her mother $\frac{2}{3}$ of a bar.

Part A How many fitness bars are left for Fiona?

Part B Explain how you can use estimation to see if your answer in part A is reasonable.

5 Rachel had 1 pound of nuts. She gave $\frac{2}{5}$ pound of nuts to Ryan. She gave $\frac{1}{5}$ pound of nuts to Madison. How many pounds of nuts did she have left?

A $\frac{1}{5}$ pound

B $\frac{2}{5}$ pound

C $\frac{3}{5}$ pound

D $\frac{4}{5}$ pound

6 Tom was at the beach. He spent $\frac{3}{7}$ of the time swimming and $\frac{1}{3}$ of the time making sandcastles. What portion of his total time at the beach did he spend doing these activities?

A $\frac{5}{21}$

B $\frac{1}{2}$

C $\frac{16}{21}$

D $\frac{2}{5}$

7 Sophie says $\frac{1}{4}$ cup + $\frac{1}{2}$ cup = $\frac{1}{8}$ cup. Why is she incorrect?

A $\frac{1}{8} > \frac{1}{4}$

B $\frac{1}{8} > \frac{1}{8}$

C $\frac{1}{4} > \frac{1}{8}$

D $\frac{2}{4} < \frac{1}{8}$

8 Kate needs a total of 4 milliliters of a chemical solution for a science experiment. She checks her inventory.

Bottle	Amount of Chemical Solution (milliliters)
1	$\frac{1}{2}$
2	$2\frac{1}{4}$
3	?

What is the minimum amount of chemical solution that she needs in Bottle 3 to have enough chemical solution for the science experiment?

A $1\frac{1}{4}$ mL

B $2\frac{3}{4}$ mL

C $1\frac{2}{3}$ mL

D $\frac{1}{4}$ mL

9 Look at the expressions below. Without adding, which sum is less? Why?

$$\frac{1}{2}+\frac{2}{5}$$
$$\frac{2}{5}+\frac{1}{3}$$

A $\frac{1}{2}+\frac{2}{5}$, because the numerator of $\frac{1}{2}$ is less than the numerator in $\frac{2}{5}$.

B $\frac{2}{5}+\frac{1}{3}$, because the denominator of $\frac{1}{3}$ is greater than the denominator in $\frac{1}{2}$.

C $\frac{1}{2}+\frac{2}{5}$, because $\frac{1}{2}$ is less than $\frac{2}{5}$.

D $\frac{2}{5}+\frac{1}{3}$, because $\frac{2}{5}$ is less than $\frac{1}{3}$.

10 Michael has $4\frac{1}{2}$ tubes of paint. He needs to use $2\frac{1}{5}$ tubes of paint or less for an art project. During the project, he uses $1\frac{1}{3}$ tubes of paint the first day and $1\frac{1}{2}$ tubes of paint the second day. Did he use $2\frac{1}{5}$ tubes of paint in total? How much less or how much more did he use?

A He used $\frac{11}{30}$ tube of paint less.

B He used $2\frac{3}{10}$ tubes of paint less.

C He used $\frac{19}{30}$ tube of paint more.

D He used $\frac{1}{5}$ tube of paint more.

4 The 8 fifth-grade classes have a total of 37 boxes of markers. They want to share them equally among the classes. How many boxes of markers will each class receive? Explain your answer.

5 There are 7 friends hiking. They realize they only have 5 quarts of water left. To be fair, they will share the water equally for the rest of the hike. How much water will each friend get? Explain how you got your answer.

6 Ethan bought 2 mufins. He shared the muffins equally among himself and 2 friends. Which expression can be used to find the part of a muffin each person received?

A $2 \div 2$

B $3 \div 2$

C $2 \div 3$

D $3 \div 3$

7 There is $\frac{3}{4}$ gallon of orange juice left at a breakfast buffet. Sixteen people want to share the orange juice equally. How much of the orange juice will each person receive?

A $\frac{3}{64}$ gallon

B $\frac{3}{16}$ gallon

C $\frac{1}{16}$ gallon

D $\frac{4}{16}$ gallon

8 Kelly made 8 buckets of popcorn. She wants to share the popcorn evenly among herself and 11 friends. How much popcorn will each person receive?

A $\frac{1}{4}$ bucket

B $\frac{2}{5}$ bucket

C $\frac{1}{2}$ bucket

D $\frac{2}{3}$ bucket