

Easy to use guide for students, parents, and teachers!

Measurement & Data

Customary Conversions

- 1 foot = 12 inches
- 1 yard = 3 feet
- 1 mile = 5,280 feet
- 1 mile = 1,760 yards
- 1 cup = 8 fluid ounces
- 1 pint = 2 cups
- 1 quart = 2 pints
- 1 gallon = 4 quarts
- 1 pound = 16 ounces
- 1 ton = 2,000 pounds

Time Conversions

- 1 minute = 60 seconds
- 1 hour = 60 minutes
- 1 day = 24 hours
- 1 year = 365 days
- 1 year = 52 weeks

Length: Measuring how long something is from end to end

Capacity: Measuring how much a container can hold

Weight: The effect of gravity on an object

Mass: Measuring the amount of matter in an object

Metric Conversions

- 1 meter = 100 centimeters
- 1 meter = 1,000 millimeters
- 1 kilometer = 1,000 meters
- 1 liter = 1,000 milliliters
- 1 gram = 1,000 milligrams
- 1 kilogram = 1,000 grams

Ask yourself:

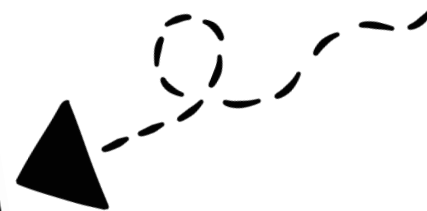
- Am I going from a bigger unit to a smaller unit or from a smaller unit to a bigger unit?
- Am I multiplying or dividing?
- How many meters are in one kilometer?

Examples

3 kilometers = _____ meters
This is going from a bigger unit to a smaller unit (multiplication) and I know there are 1,000 meters in one kilometer.
 $3 \times 1,000 = 3,000$ meters

32 quarts = _____ gallons
This is going from a smaller unit to a bigger unit (division) and I know there are 4 quarts in one gallon.
 $32 \div 4 = 8$ gallons

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Perfect reference for test prep review or send home as notes for homework!

Meter	
1	
2	200
3	
4	

Year	
1	365
2	
3	
4	

Millimeters	
1	1,000
2	
3	
4	

Minutes	
1	1,440
2	
3	
4	

Gram	
1	
2	2,000
3	
4	

Week	
1	168
2	
3	
4	

12
36
5,280

Quarts	
1	
2	8
3	
4	

Seconds	
1	
2	120
3	
4	

Liter	
1	
2	

2

2
3

2
3

Hours	
1	
2	48

Centimeters	
1	100,000
2	
3	
4	

Meter	
3	
4	

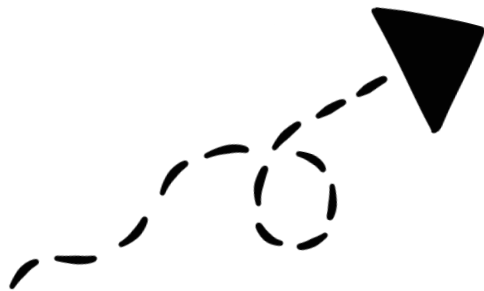
Milligrams	
1	1,000,000
3	
4	

Pound	
1	
4	

Gallon	
1	
2	16
3	
4	

Includes TWO
measurement conversion
practice pages!

Practice identifying sizes of measurement units



Name: _____

1. Select all the measurements that are about **1 yard** long:

- ☐ The length of a guitar
- ☐ The height of a classroom
- ☐ The width of a classroom door
- ☐ The length of a movie ticket
- ☐ The height of a building

2. Select all the measurements that are about **1 meter** long:

- ☐ The height of a staircase
- ☐ The width of the dining room table
- ☐ The length of a bedroom
- ☐ Outstretched arms of a child
- ☐ One long step of an adult

3. Select all the measurements that are about **1 foot** long:

- ☐ The width of a thumb
- ☐ The distance to the store
- ☐ The depth of a shelf
- ☐ The height of a truck
- ☐ The length of a ruler

4. Select all the measurements that weigh about **1 pound**:

- ☐ A straw
- ☐ A microwave
- ☐ A can of soup
- ☐ A desk
- ☐ A football

5. Select all the measurements that weigh about **1 gram**:

- ☐ A paperclip
- ☐ A can of soup
- ☐ A piece of gum

6. Select all the measurements that are about **1 centimeter** long:


- ☐ The length of a staple
- ☐ The length of a thumbtack
- ☐ The thickness of a cell phone
- ☐ The length of a dog
- ☐ The width of a fingernail
- ☐ The height of a child
- ☐ The width of a blueberry

7. Select all the measurements that are about **1 inch** long:

- ☐ The height of a table
- ☐ The length between two knuckles on an adult
- ☐ The cord on a lamp
- ☐ The width of an orange
- ☐ The face of a watch
- ☐ The width of a cheeseburger

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Practice solving word problems involving distances, time, volumes, masses, and money!



Name: _____

1. Mrs. Thomas needs 35 feet of border for her bulletin board, but the ribbon only comes in yards. Each roll of ribbon has 9 yards. How many rolls of ribbon does Mrs. Thomas need?

2. Alex studied for an upcoming science test for 2 hours on Monday, 30 minutes on Tuesday, 45 minutes on Wednesday, and 1 hour and 30 minutes on Thursday. How many minutes did Alex study for the test altogether?

3. Nicole ran 2 miles around town on Monday. Madison ran 8,124 feet. How much farther did Nicole run than Madison, in feet?

4. The Mariana Trench is the deepest place in the world's ocean at 10,911 meters deep. The seventh deepest ocean, the Japan Trench, is 9 kilometers deep. How much deeper is the Mariana Trench than the Japan Trench, in meters?

5. The length of the desk in our classroom is 3 feet and the width of the door is 48 inches. How much wider is the door, in inches?

6. The high school football team started the game with 15 gallons of water. At half-time, the boys drank $3\frac{1}{4}$ gallons. They still had $2\frac{1}{4}$ gallons left at the end of the game. How much water did the team drink in the second half?

7. The school's garden has a hummingbird feeder. The garden leader puts 16 fluid ounces of hummingbird food in the feeder every week. After 6 weeks, how much hummingbird food has been put in the feeder, in ounces?

Measurement & Data

Customary Conversions

1 foot = 12 inches
1 yard = 3 feet
1 mile = 5,280 feet
1 mile = 1,760 yards

1 cup = 8 fluid
1 pint = 2 cups
1 quart = 2 p
1 gallon = 4 q

1 pound = 16
1 ton = 2,000

Time Con

1 minute =
1 hour =
1 day =
1 year =
1 year =

Length

long
end

Cap

ho
cc

V

cc
l

Metric Conversions

1 meter = 100 centimeters
1 meter = 1,000 millimeters
1 kilometer = 1,000 meters

1 liter = 1,000 milliliters

1,000 milligrams
grams

REVIEW

Measurement & Data

Meter	
1	
2	200
3	
4	

Year	
1	365
2	
3	

	Millimeters
1	1,000
2	
3	
4	

Name: _____

1
2
3
4

1
2
3
4

Feet	Inches
1	12
2	24
3	36
4	48

Mile	
1	5,280
2	
3	
4	

	Pounds
1	
2	4,000
3	
4	

Gallons	Quarts
1	4
2	8
3	12
4	16

	Weeks
1	52
2	
3	
4	

Mile	yard
1	1,760
2	3,520
3	5,280
4	7,040

	Seconds
1	
2	120
3	
4	

Yard	
1	
2	6
3	
4	12

	Hours
1	
2	48
3	
4	

Name: _____

Name:

1. Mrs. Thomas needs 35 feet of border for her bulletin board, but the ribbon only comes in yards. Each roll of ribbon has 9 yards. How many rolls of ribbon does Mrs. Thomas need? 2 rolls

2. Alex studied for an upcoming science test for 2 hours on Monday, 30 minutes on Tuesday, 45 minutes on Wednesday, and 1 hour and 30 minutes on Thursday. How many minutes did Alex study for the test altogether? 225 minutes

3. Nicole ran 2 miles around town on Monday. Madison ran 8,124 feet. How much farther did Nicole run than Madison, in feet? $2,436 \text{ ft}$

4. The Mariana Trench is the deepest place in the world's ocean at 10,911 meters deep. The seventh deepest ocean, the Japan Trench, is 9 kilometers deep. How much deeper is the Mariana Trench than the Japan Trench, in meters?

5. The length of the desk in our classroom is 3 feet and the width of the door is 48 inches. How much wider is the door, in inches?

6. The high school football team started the game with 15 gallons of water. At half-time, the boys drank $3 \frac{1}{4}$ gallons. They still had $2 \frac{1}{4}$ gallons left at the end of the game. How much water, in quarts, did the team drink in the second half?

7. The school's garden has a hummingbird feeder. The garden leader puts 16 fluid ounces of hummingbird food in the feeder every week. After 6 weeks, how much hummingbird food has been put in the feeder, in ounces?

Name: Kim

1. Select all the measurements that are about 1 yard long:

- ☒ The length of a guitar
- ☐ The height of a classroom
- ☒ The width of a classroom door
- ☐ The length of a movie ticket
- ☐ The height of a building

2. Select all the measurements that are about 1 meter long:

- ☐ The height of a table
- ☒ The width of a table
- ☐ The length of a staircase
- ☒ Outstretched arms of a child
- ☒ One long step of an adult

3. Select all the measurements that are about 1 foot long:

- ☐ The width of a thumb
- ☐ The distance to the store
- ☒ The depth of a shelf
- ☒ The height of a truck
- ☒ The length of a ruler

4. Select all the measurements that weigh about 1 pound:

- ☐ A small apple
- ☐ A notebook
- ☒ A can of soup
- ☐ A pencil
- ☒ A paperclip

5. Select all the measurements that are about 1 inch long:

- ☒ The length of a thumbtack
- ☐ The thickness of a cell phone
- ☒ The length of a dog
- ☒ The width of a fingernail
- ☐ The height of a child
- ☒ The width of a blueberry

6. Select all the measurements that are about 1 centimeter long:

1 centimeter long: staple

Name:

ANSWER KEY

1. Select all the measurements that are about 1 yard long:

- ☒ The length of a guitar
- ☐ The height of a classroom
- ☒ The width of a classroom door
- ☐ The length of a movie ticket
- ☐ The height of a building

2. Select all the measurements that are about 1 meter long:

- ☐ The height of a staircase
- ☒ The width of the dining room table
- ☐ The length of a bedroom
- ☒ Outstretched arms of a child
- ☒ One long step of an adult

3. Select all the measurements that are about 1 foot long:

- ☐ The width of a thumb
- ☐ The distance to the store
- ☒ The depth of a shelf
- ☐ The height of a truck
- ☒ The length of a ruler

4. Select all the measurements that weigh about 1 pound:

6. Select all the measurements that are about 1 centimeter long:

- ☒ The length of a staple
- ☒ The length of a thumbtack
- ☒ The thickness of a cell phone
- ☐ The length of a dog
- ☒ The width of a fingernail
- ☐ The height of a child
- ☒ The width of a blueberry

7. Select all the measurements that are about 1 inch long:

- ☐ The height of a table
- ☒ The length between two knuckles on an adult