

Lesson 11- 1: Convert Customary Units of Length Solve and Share

Content Standard: 5.MD.A.1

I Can Statement: I can convert customary units of length.

William has a piece of wire that measures 1 yard long. He will use the wire to fix several electrical outlets in his house. How many inches long is the wire?

Lesson 11- 1: Independent Practice

Complete each table to show equivalent measures.

1.

Feet	Inches
1	
2	
	36
4	

2.

Yards	Feet
1	
	6
3	
4	

Convert each unit of length.

3. 3 yd = ____ in.

4. 324 ft = ____ yd

5. $2\frac{2}{3}$ mi = ____ ft

6. 56 ft = ____ yd ____ ft

7. $12\frac{1}{2}$ ft = ____ in.

8. 6 in. = ____ ft

Compare each length by writing <, >, = for each \bigcirc .

9. 100 ft \bigcirc 3 yd

10. 74 in. \bigcirc 2 yd. 2 in.

Lesson 11- 2: Convert Customary Units of Capacity Solve and Share

Content Standard: 5.MD.A.1

I Can Statement: I can convert customary units of capacity.

A recipe makes 16 cups of soup. How many quarts does the recipe make? Remember, there are 2 cups in a pint and 2 pints in a quart.

___ cups = 1 quart

16 cups = ___ quarts

Lesson 11- 2: Independent Practice

Complete the table to show equivalent measures.

1.

Gallons	Quarts	Pints	Cups	Fluid Ounces
1		8		
2				256

Convert each unit of capacity.

2. 10 pt = ___ qt

3. 48 fl oz = ___ c

4. $\frac{1}{2}$ c = ___ pt

5. $9\frac{1}{4}$ pt = ___ c

6. 36 pt = ___ qt

7. 30 qt = ___ gal ___ qt

8. 1 qt = ___ gal

9. 72 pt = ___ gal

10. 1 gal 1 c = ___ fl oz

Lesson 11- 3: Convert Customary Units of Weight Solve and Share

Content Standard: 5.MD.A.1

I Can Statement: I can convert customary units of weight.

Maria adopted 4 dogs. All together they eat $1\frac{3}{4}$ pounds of food each day. One pound is equal to 16 ounces. How many ounces of food will the dogs eat in 5 days?

Lesson 11- 3: Independent Practice

Complete each table to show equivalent measures.

1.

Pounds	$\frac{1}{2}$		5
Ounces		32	

2.

tons	$\frac{1}{2}$	2	
Pounds			12,000

Convert each unit of weight.

3. 240 oz = ____ lb

4. $7\frac{1}{10}$ T = ____ lb

5. 8 lb = ____ oz

6. 4 oz = ____ lb

7. 250 lb = ____ T

8. 1 T = ____ oz

Compare each length by writing <, >, = for each \bigcirc .

9. 5,000 lb \bigcirc 3 T

10. 24 lb \bigcirc 124 oz

Lesson 11- 4: Convert Metric Units of Length Solve and Share

Content Standard: 5.MD.A.1

I Can Statement: I can convert metric units of length.

Measure the length of one of the gray desks in centimeters. Then measure it in millimeters. What do you notice about the two measurements?

1 cm = _____ mm

Length of desk: _____ cm

Length of desk: _____ mm

Lesson 11- 4: Independent Practice

Complete each table to show equivalent measures.

1.

km	1		.01
m		500	

2.

m	50		0.5
cm		500	

Convert each unit of length.

3. 7.5 cm = _____ mm

4. 6 m = _____ cm

5. 0.8 km = _____ cm

6. 17,000 m = _____ km

7. 48,000 mm = _____ m

8. 4 km = _____ m

Compare each length by writing <, >, = for each \bigcirc .

9. 25,365 cm \bigcirc 30 m

10. 3.6 km \bigcirc 3,600 m

Lesson 11- 5: Convert Metric Units of Capacity Solve and Share

Content Standard: 5.MD.A.1

I Can Statement: I can convert metric units of capacity.

A pitcher holds 4 liters of water. How many milliliters does the pitcher hold?

1 liter = _____ milliliters

4 liters = _____ milliliters

Lesson 11- 5: Independent Practice

Complete each table to show equivalent measures.

1.

liters	0.1	1	10
milliliters			

2.

milliliters	500	5,000	50,000
liters			

Convert each unit of capacity.

3. 5,000 mL = _____ L

4. 45,000 mL = _____ L

5. 4.27 L = _____ mL

6. 3,700 mL = _____ L

7. 0.35 L = _____ mL

8. 2,640 mL = _____ L

9. 0.06 L = _____ mL

10. 2,109 mL = _____ L

Lesson 11-6 : Convert Metric Units of Mass Solve and Share

Content Standard: 5.MD.A.1

I Can Statement: I can convert metric units of mass.

In Chemistry class, Rhonda measured 9.5 grams of substance. How many milligrams is this?

Lesson 11- 6: Independent Practice

Complete each table to show equivalent measures.

1.

grams		10	
milligrams	1,000		100,000

2.

grams	500		50,000
kilograms		5	

Convert each unit of mass.

3. 17,000 g = ____ kg

4. 18 kg = ____ g

5. 4,200 mg = ____ g

6. 0.276 g = ____ mg

7. 4.08 kg = ____ g

8. 43 mg = ____ g

Compare each length by writing <, >, = for each ○ .

9. 2,000 g ○ 3 kg

10. 4 kg ○ 4,000 g

Lesson 11- 7: Solve Word Problems Using Measurement Conversions Solve and Share

Content Standard: 5.MD.A.1

I Can Statement: I can solve real-world problems with measurement conversions.

Amy wants to frame a poster that has a width of 8 inches and a length of 1 foot. What is the perimeter of the poster?

Lesson 11- 7: Independent Practice

Use conversions to solve each problem. Show your work.

1. Stacia needs enough ribbon to wrap around the length and height of a box. If the length is 2 feet and the height is 4 inches, how much ribbon will she need?
2. If ribbon is sold in whole number yards and costs \$1.50 per yard, how much will it cost Stacia to buy the ribbon?
3. Becca wants to edge her hexagonal garden with brick. All sides are equal. The brick costs \$6 per yard. What is the perimeter of the garden if each side is 12 feet long? How much will it cost to buy the edging she needs?
4. Isaac buys milk to make milkshakes for his friends. He buys 1 quart of milk and $\frac{1}{2}$ gallon of milk. How many cups did he buy?
5. Maggie buys $1\frac{1}{2}$ pound of walnuts, 8 ounces of pecans, and $\frac{3}{4}$ pound of almonds. How much do the nuts weigh in all?