5th Grade Work Packet

April 20-24

Hi, guys! This week our target is:

I can convert between customary units of length, weight, and capacity.

Here are a few useful tips and examples!

1. If you are going from a bigger unit to a smaller unit, you MULTIPLY. So, if you have 4 yards, and you want to know how many feet that is, you would multiply 4 yards x 3 feet per yard. 4x3=12.

Another example would be going from pounds to ounces. Since pounds are larger units than ounces, you would multiply.

5 pounds = ____ ounces

5 pounds x 16 ounces per pound $5 \times 16 = 80$ ounces.

 If you are going from a smaller unit to a bigger unit, you would DIVIDE. So, if you have 48 inches, and you want to know how many feet, you divide 48 inches by 12 inches per foot. 48 divided by 12=4.

5th graders, we have done division in several ways this year, but I get that you might feel a little rusty. My 5th YouTube video this week covers methods to divide. Oh, and LISTEN TO YOUR PARENTS. They often have cool ways to figure things out. And parents, don't be afraid to teach your kids "the wrong way." There isn't one right way. Teach the way you know!

If you want another resource, go see these khanacademy videos.

https://www.khanacademy.org/math/4th-engage-ny/engage-4th-module-7/4th-module-7-topic-a/v/converting-usfluid-volume (This one is for liquid measures)

https://www.khanacademy.org/math/4th-engage-ny/engage-4th-module-7/4th-module-7-topic-b/v/us-customaryweight (this one gives examples of different weights)

https://www.khanacademy.org/math/cc-fifth-grade-math/imp-measurement-and-data-3/imp-unit-measurement-wordproblems/v/unit-conversion-with-fractions (This one talks about converting linear measures)

khanacademy.org/math/arithmetic-home/multiply-divide/mult-digit-div-2/v/division-2 (This one is an overview of dividing with a one-digit divisor)

https://www.khanacademy.org/math/arithmetic-home/multiply-divide/mult-digit-div-2/v/level-4-division (dividing with a 2-digit divisor)

Have a great week guys! Stay healthy, stay safe, and go measure stuff!

Mrs. Johnston



Name: _____

Date:

Liquid Volume Equivalents #2



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LEMONADE STAND MATH

You and your friends run a lemonade stand every day during the summer. You are in charge of keeping track of the volume of lemonade sold. Given the number of cups sold each day, use division to express the number of cups sold in gallons, quarts, and cups.

Follow the example below. Refer to the **conversion box** to convert your units correctly. Show and check your work.









The conversion rate for pounds and ounces is

16 ounces (oz.) = 1 pound (lb.)

When converting pounds to ounces, we multiply. When converting ounces to pounds, we divide.

EXAMPLE: 3 lbs = 2 oz 3 lbs x 16 = 48 ounces <-> we multiply by 16 because 1 lb = 16 oz.

Read each question below and solve the problem by using multiplication or division. Be sure to show all of your work in the space provided.

- 1.) Lucy made 3 cakes that each weighed 32 ounces. How many pounds of cake did Lucy make?
- 2.) Mike's turkey burger recipe calls for 4 pounds of ground turkey. How many ounces of ground turkey should Mike purchase at the local grocery store?
- 3.) Sarah's dog weighs 64 ounces. How many pounds does Sarah's dog weigh?
- 4.) Jim's soccer bag weighs 48 ounces. He removed his cleats and shinguards that weighed a total of 1 pound. How much does his soccer bag weigh now?



| | | -(U.S. 0 | Customa | ary Uni | t Conver | sion) ^{Ou} | nces and Pounds: S1 | |
|--|--------------------------|---------------------------|---------------------------|--------------------|----------------|---------------------|---------------------|--|
| A) Convert between pounds and ounces. | | | | | | | | |
| 1) | 43 pounds | = | oun | ices 2) 1 | .600 ounces = | = | pounds | |
| 3) | 384 ounces | = | pou | inds 4) | 69 pounds = | = | ounces | |
| 5) | 8 pounds | = | oun | ices 6) 3 | 304 ounces = | = | pounds | |
| B) Complete the unit conversion table. | | | | | | | | |
| | pounds | | 33 | | 62 | | 85 | |
| | ounces | 96 | | 864 | | 1,136 | | |
| C) Compare using <, >, or =. | | | | | | | | |
| 1) | 336 ounces | s | 21 pound | s 2) | 77 pounds | | 1,230 ounces | |
| 3) | 58 pounds | s | 936 ounce | es 4) | 720 ounces | | 45 pounds | |
| 5) | 1,442 ounces | s | 89 pound | s 6) | 10 pounds | | 170 ounces | |
| 7) | 90 pounds | 5 | 1,440 oun | ices 8) 1, | 219 ounces | | 75 pounds | |
| D) | Carlos wan the weight | ts to buy a of the dun | new 40-pc nbbell in or | ound dum unces? | bbell to boo | ost his fitne | ess. What is | |
| | | | | | | | | |







| Name: | | | | | | Date | 2: | |
|-----------------|------------------------------------|-------------------------|-----------------------------------|----------------------|----------------------|------------------------------|---------|---------|
| НІМТ | Complete I : 12 inches(i | the table n.) is equ | e by convertir ual to 1 foot(f | ng inch t.), 3 fe | es, feet et is ec | and yards. qual to 1 yard | d (yd.) | |
| | 2 yards | | 3 yards | | | | | 5 yards |
| 3 feet | | | | | 12 feet | | | |
| | 72 inch | ies | | | 144 inches | | | |
| | Conv | ert the f | following line | ear me | asuren | nents. | | |
| 1) 1 yard = | _ inches | 2) 108 | 8 inches = | f | eet | 3) 15 feet = | | yards |
| 4) 8 feet = | inches | 5) 144 | inches = | ya | ards | 6) 6 yards | = | feet |
| 7) 108 inches = | yards | 8) 10 y | yards = | fee | t | 9) 60 feet = | | yards |
| 10) 10 feet = | inches | 11) 7 y | ards = | feet | : | 12) 96 inch | ies = | feet |
| | | | | | | | | |

Use the conversion table to solve the word problems.

13) Joey is trying out for the football team at school. He tells the coach that he can throw a ball 36 feet, but his coach reminds Joey that the field is measured in yards. How many yards can Joey throw the ball?

14) Marianne is rearranging her room. Each wall in her room is 12 feet long. Her desk measures 36 inches, her bed is 72 inches, and her bookshelf is 24 inches. If she places them all along the same wall, how much of the wall will remain uncovered, in feet?

*Bonus Activity: Use a measuring tape or yardstick to measure things around your house. Can you find anything that is longer than 3 yards?



LINEAR MEASUREMENTS

Convert the following linear measurements.

HINT: 12 inches(in.) is equal to 1 foot(ft.), 3 feet is equal to 1 yard (yd.)



LINEAR MEASUREMENTS



Complete the table by converting inches, feet and yards.

HINT) 12 inches(in.) is equal to 1 foot(ft.), 3 feet is equal to 1 yard (yd.)

| 1 yard | 2 yards | | 4 yards | |
|-----------|---------|------------|---------|---------|
| | 6 feet | | | 15 feet |
| 36 inches | | 108 inches | | |

Convert the following linear measurements.



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Two-Digit Divisors

Example:

Caryn's scout troop needs to sell 603 magazine subscriptions in order to win a trip to the local theme park. If there are 26 scouts in her troop, how many subscriptions will each scout need to sell to win the theme park trip?

Answer:

The troop must sell a total of 603 subscriptions, which is about 600. Round 603 down to 600. There are 26 scouts in Caryn's troop, which is about 30. Round 26 up to 30. $600 \div 13 = 20$. Each scout will need to sell about 20 subscriptions.

Use estimation to solve the problems below.

I. Daniel's school band has 74 different instruments, from triangles to tubas. There are 26 kids in band. How many instruments can each student learn this year?

2. Mrs. Bennett's class is making programs for the school play. They need to make 329 programs in all. If there are 21 students in Mrs. Bennett's class, how many programs does each student need to make?

3. Kory wants to finish his book report ahead of schedule. It is due in 63 days, but he would like to finish reading the book in 45 days so he can use the rest of his time to write the report. His book is 272 pages long. How many pages will he need to read in order to finish it in 45 days?

4. Carmel is keeping track of how much exercise she gets. She wants to do 630 minutes of exercise over the next three weeks. How many minutes of exercise will she need per day to meet her goal? (Hint: 3 weeks = 21 days!)



Two-Digit Divisors (Continued)

Now, find the exact answers for these problems. There will be no remainders.





4th Grade Assessment April 20-24 (Due May 1)

Find each conversion:



A cup of water weighs 8 ounces. How much would 4 gallons of water weigh? Please show all your work in the space below. (2 points possible)