

**AMERICAN MATH HW
WEEK OF 10MAR to 14MAR**

Due Date: 03/16 by midnight

Focus for the week: The focus of the HW this week is the following:

1. To be able to prepare for the test on Friday, 03/14 on
Measurement – Customary and Metric Units of measurements for
length, weight, and volume.
2. Practice concepts taught this week – Time and temperature

Therefore, the HW for this week focuses on:

- **Mon/Tuesday – Review for the test on Friday, 03/14
(Customary units of Length, Mass, Volume, Mixed measures of
Customary units, Metric units of Length, Mass and Volume)**
- Wed-Fri – Practice on Time and Temperature

Pacing guideline: **Look at the top right corner of the page** to see the suggested pace for the homework

Uploading Instructions: Upload homework on Archie and wait till you get the message – “**the file has been successfully uploaded**”. If for any reason you have technical issues, get in touch with me as soon as possible.

IMPORTANT – Please show all your work for FULL CREDIT. If you are multiplying or dividing, I would like to see the multiplication and division sentences to see what numbers are being multiplied or divided.

Note: Bring your homework to class everyday. I will discuss the HW from the previous day in every class. It is important to practice the assigned topics daily because the next day's instruction builds on the previous lesson.

Grade 4 FAST Mathematics Reference Sheet

Customary Conversions

1 foot = 12 inches

1 yard = 3 feet

1 pint = 2 cups

1 quart = 2 pints

1 gallon = 4 quarts

1 pound = 16 ounces

Time Conversions

1 minute = 60 seconds

1 hour = 60 minutes

Formulas

Rectangle $P = l + l + w + w$
 $A = l \times w$

Metric Conversions

1 meter = 100 centimeters

1 meter = 1000 millimeters

1 kilometer = 1000 meters

1 liter = 1000 milliliters

1 gram = 1000 milligrams

1 kilogram = 1000 grams

| Key | |
|-----------------------------|-------------------------------|
| l = length w = width | P = perimeter A = area |

Name _____

TEST

Review

1. Mrs. Miller wants to estimate the width of the steps in front of her house. Select the best benchmark for her to use.

☐ (A) her fingertip
☐ (B) the thickness of a dime
☐ (C) the width of a license plate
☐ (D) how far she can walk in 20 minutes

2. Ilsa is measuring the length of her pencil. Which unit of measure should she use?

☐ (A) inches
☐ (B) feet
☐ (C) grams
☐ (D) ounces

3. Select the measures that are equal. Mark all that apply.

| | |
|------------------------------------|--------------------------------------|
| <input type="radio"/> (A) 6 feet | <input type="radio"/> (D) 600 inches |
| <input type="radio"/> (B) 15 yards | <input type="radio"/> (E) 12 feet |
| <input type="radio"/> (C) 45 feet | <input type="radio"/> (F) 540 inches |

4. Jackie made 6 quarts of lemonade. Jackie says she made 3 pints of lemonade. Explain Jackie's error. Then find the correct number of pints of lemonade.

5. Jose is building a patio for an outdoor school common grounds. The patio has two sections. The seating area is 15 feet 7 inches long. The open area is 8 feet 2 inches long.

Part A

Explain how you could find the total length of the patio in inches.

Part B

How long is the seating area of the patio in inches? Show your work.

Part C

How long is the open area in inches. Show your work.

Part D

What is the total length of the patio in inches?

_____ inches

6. Circle the correct word to complete the sentence.

Juan brings a water bottle with him to soccer practice.

A full water bottle holds about _____ of water.

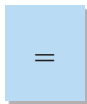
1 liter

10 milliliters

1 meter

Name _____

7. Write the symbol that compares the weights correctly.



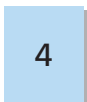
128 ounces _____ 8 pounds

8,000 pounds _____ 3 tons

8. Dwayne bought 5 yards of wrapping paper. How many inches of wrapping paper did he buy?

_____ inches

9. A sack of potatoes weighs 14 pounds 9 ounces. After Wendy makes potato salad for a picnic, the sack weighs 9 pounds 14 ounces. What is the weight of the potatoes Wendy used for the potato salad? Write the numbers to show the correct subtraction.



14 pounds
- 9 pounds



9 ounces
14 ounces



10. Sabita made this table to relate two customary units of liquid volume.

Part A

List the number pairs for the table. Then describe the relationship between the numbers in each pair.

| 1 | 2 |
|---|----|
| 2 | 4 |
| 3 | 6 |
| 4 | 8 |
| 5 | 10 |

Part B

Label the columns of the table. Explain your answer.

11. Maria buys 3 pounds 4 ounces of pineapples. She buys 5 pounds 2 ounces of peaches.

11a. What is the weight of the pineapples and peaches?

_____ pounds _____ ounces

11b. If Maria buys 1 pound 9 ounces of bananas, what is the total weight of all her fruit?

_____ pounds _____ ounces

11c. During the week, Maria eats 2 pounds 7 ounces of fruit. What is the total weight of the fruit that is left?

_____ pounds _____ ounces

12. An elephant living in a wildlife park weighs 4 tons. How many pounds does the elephant weigh?

_____ pounds

13. Katia bought two melons. She says the difference in mass between the melons is 5,000 grams. Which two melons did Katia buy?

- Ⓐ watermelon: 8 kilograms
- Ⓑ cantaloupe: 5 kilograms
- Ⓒ honeydew: 3 kilograms
- Ⓓ casaba melon: 2 kilograms
- Ⓔ crenshaw melon: 1 kilogram

14. Write the equivalent measurements in each column.

3,000 millimeters

300 centimeters

30 centimeters

3 decimeters

350 millimeters

30 decimeters

3 meters

35 centimeters

300 millimeters

Name _____

15. Cheryl is making a mixed fruit drink for a party. She mixes 7 pints each of apple juice and cranberry juice. How many fluid ounces of mixed fruit drink does Cheryl make?

_____ fluid ounces

16. Li has a blue ribbon that is 3 feet 5 inches long and a yellow ribbon that is 42 inches long. Which statement is true?

- (A) The blue ribbon is longer than the yellow ribbon because 41 inches $<$ 42 inches.
- (B) The blue ribbon is longer than the yellow ribbon because 63 inches $>$ 42 inches.
- (C) The yellow ribbon is longer than the blue ribbon because 41 inches $<$ 42 inches.
- (D) The yellow ribbon is longer than the blue ribbon because 63 inches $>$ 42 inches.

17. For Problems 17a–17e, Choose Yes or No to tell whether the measurements are equivalent.

- | | | | |
|------|--------------------------------|---------------------------|--------------------------|
| 17a. | 7,000 grams and 7 kilograms | <input type="radio"/> Yes | <input type="radio"/> No |
| 17b. | 200 milliliters and 2 liters | <input type="radio"/> Yes | <input type="radio"/> No |
| 17c. | 6 grams and 6,000 kilograms | <input type="radio"/> Yes | <input type="radio"/> No |
| 17d. | 5 liters and 5,000 milliliters | <input type="radio"/> Yes | <input type="radio"/> No |
| 17e. | 2 milliliters and 2,000 liters | <input type="radio"/> Yes | <input type="radio"/> No |

18. Hamid can carry 6 kilograms in his backpack. Which 3 items can he pack in his backpack so that he is carrying the maximum weight?

- (A) tent: 4,500 grams
- (B) pan: 800 grams
- (C) sleeping mat: 1,200 grams
- (D) coat: 900 grams
- (E) fruit box: 3,000 grams
- (F) granola bars: 1,800 grams

19. The tables show patterns for some units of measurement. Write the correct labels in each table.

| Pints | Pounds | Feet | Cups | Ounces | Yards | Inches | Quarts |
|-------|--------|------|------|--------|-------|--------|--------|
| | | Feet | | Pounds | | | |
| 1 | 3 | | 1 | 16 | | 1 | 4 |
| 2 | 6 | | 2 | 32 | | 2 | 8 |
| 3 | 9 | | 3 | 48 | | 3 | 12 |
| 4 | 12 | | 4 | 64 | | 4 | 16 |

20. An Olympic swimming pool is 25 meters wide. How many decimeters wide is an Olympic swimming pool?

_____decimeters wide

Name _____

Units of Time

Complete.

1. 6 minutes = 360 seconds

Think: 1 minute = 60 seconds,
so 6 minutes = 6×60 seconds, or 360 seconds.

2. 5 weeks = _____ hours

3. 3 years = _____ weeks

4. 9 hours = _____ minutes

5. 9 minutes = _____ seconds

Compare using $<$, $>$, or $=$.

6. 2 years 14 months

7. 3 hours 300 minutes

8. 2 days 48 hours

9. 6 years 300 weeks

Problem Solving

10. Jody practices a piano piece for 500 seconds.
Bill practices a piano piece for 8 minutes.
Who practices longer? Explain.

11. Yvette's younger brother just turned 3 years old. Fred's brother is now 30 months old.
Whose brother is older? Explain.

Lesson Check

13. Aemilius rides his bike for 2 hours. For how many seconds does Aemilius ride his bike?
14. Caelum says that vacation starts in exactly 4 weeks. In how many days does vacation start?

Lesson Check

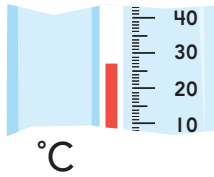
6. Bobbie went snowboarding with friends at 10:10 a.m. They snowboarded for 1 hour and 43 minutes, and then they ate lunch for 37 minutes. What time did they finish lunch?
7. The Cain family drove for 1 hour and 15 minutes and arrived at their camping spot at 3:44 p.m. What time did the Cain family start driving?

Name _____

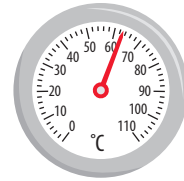
Temperature

Write the temperature in degrees Celsius.

1.

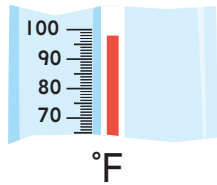


2.



Write the temperature in degrees Fahrenheit.

3.



4.



Choose the better temperature for the activity.

5. 4 °C 26 °C



6. 38 °F 74 °F



7. It's 12 °C outside. What activity might you do?
What clothes should you wear?

8. Anu is wearing shorts and sandals. For problems 8a-8d, choose Yes or No to tell whether her clothing is reasonable for the outdoor temperature.

8a. 38 °F ☐ Yes ☐ No8b. 31 °C ☐ Yes ☐ No8c. 95 °F ☐ Yes ☐ No8d. 11 °C ☐ Yes ☐ No

9. Look at the thermometer. What is 0.1 °F more?



10. Look at the thermometer. What is 0.01 °C less?



Lesson Check

11. Gilbert is wearing shorts and a T-shirt while hiking. Which is the best choice for the temperature?
- Ⓐ 0°C
 - Ⓑ 10°C
 - Ⓒ 30°C
 - Ⓓ 50°C
12. Benjamin's temperature is 0.1°F above normal. What is his temperature?
- Ⓐ 32.1°F
 - Ⓑ 72.1°F
 - Ⓒ 98.7°F
 - Ⓓ 100.7°F