

**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.

- |              |                |
|--------------|----------------|
| (A) 6 feet   | (D) 600 inches |
| (B) 15 yards | (E) 12 feet    |
| (C) 45 feet  | (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?

- (A) watermelon: 8 kilograms
- (B) cantaloupe: 5 kilograms
- (C) honeydew: 3 kilograms
- (D) casaba melon: 2 kilograms
- (E) 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
1	3
2	6
3	9
4	12

Pounds	
1	16
2	32
3	48
4	64

1	4
2	8
3	12
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 =  $6 \times 60$  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.

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

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## 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?

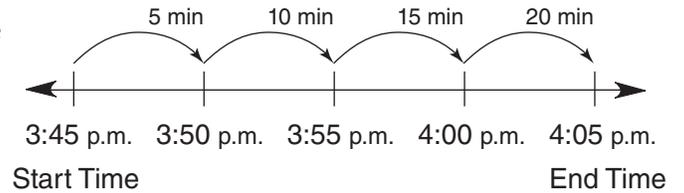
Name \_\_\_\_\_

## Elapsed Time

Read each problem and solve.

1. Candra started her piano lesson at 3:45 p.m. The lesson lasted 20 minutes. What time did the piano lesson end?

**Think:** What do I need to find? How can I draw a diagram to help?



4:05 p.m.

2. Capricornus spent 24 minutes playing a computer game. He then went outside and played basketball for 36 minutes. He stopped playing basketball at 3:55 p.m. What time did he start playing video games?

3. Aimee drives 20 minutes to her karate class. Her karate class lasts 1 hour and 15 minutes and is over at 5:00 p.m. What time does, Aimee start driving to her karate class?

4. Mr. Giarmo left for work at 7:15 a.m. Twenty-five minutes later, he arrived at his work. What time did Mr. Giarmo arrive at his work?

## Lesson Check

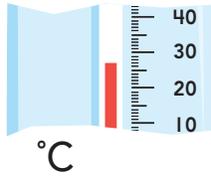
6. Bobbie went snowboarding with friends at 10:10 a.m. They snowboarded for 1 hour and 43 minutes, and then they ate lunch for 37 minutes. What time did they finish lunch?
7. The Cain family drove for 1 hour and 15 minutes and arrived at their camping spot at 3:44 p.m. What time did the Cain family start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

Name \_\_\_\_\_

# Temperature

Write the temperature in degrees Celsius.

1.



\_\_\_\_\_

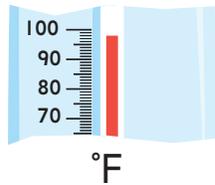
2.



\_\_\_\_\_

Write the temperature in degrees Fahrenheit.

3.



\_\_\_\_\_

4.



\_\_\_\_\_

Choose the better temperature for the activity.

5. 4°C      26°C



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

\_\_\_\_\_  
\_\_\_\_\_

6. 38°F      74°F



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       No
- 8b. 31°C       Yes       No
- 8c. 95°F       Yes       No
- 8d. 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?
- Ⓐ  $0^{\circ}\text{C}$
  - Ⓑ  $10^{\circ}\text{C}$
  - Ⓒ  $30^{\circ}\text{C}$
  - Ⓓ  $50^{\circ}\text{C}$
12. Benjamin's temperature is  $0.1^{\circ}\text{F}$  above normal. What is his temperature?
- Ⓐ  $32.1^{\circ}\text{F}$
  - Ⓑ  $72.1^{\circ}\text{F}$
  - Ⓒ  $98.7^{\circ}\text{F}$
  - Ⓓ  $100.7^{\circ}\text{F}$