

Math Test Notice

Dear Parent(s) and Student,

We will be having a post assessment over the Unit 5; Measurement concepts on _____.

The attached study guide is an excellent way to review and practice for the final test. It would also be helpful to use the CORE book to review the necessary skills. The test will cover concepts from lessons 1-8.

There are also two resources we use in class that would be helpful while you're reviewing. The CORE and HW & Remembering books have examples of problems we have worked on. Students may complete any incomplete problems as practice for the test.

Please note that if this study guide is signed and returned on the day of the review _____, you will receive extra credit toward your overall subject grade.

There is an answer key included in the back of this letter (for parents' eyes only). Thank you!

Good luck and happy studying!

_____ I have reviewed the Unit 5 concepts with my child.

Parent signature _____

Student signature _____

Date: _____

Study Guide - (for parent's eyes only)

Unit 5 - Form A

Name _____ Date _____

1. A scale model of a lizard is 4 centimeters long. The actual lizard is 9 times as long as the model. How long is the actual lizard in millimeters? 360 millimeters

2. Describe the relationship between these units of time: days, hours, and minutes.

Possible description: Each of these units of time is longer than the next smaller unit of time. The length of 1 day is 24 times as long as 1 hour, and 1 hour is 60 times as long as 1 minute.

3. Complete the table that relates liters and milliliters.

Liters	Milliliters
1	1,000
2	2,000
3	3,000
4	4,000

4. What is the area of the rectangle? 192 square miles



5. Classify the conversion as using $\times 10$, $\times 100$, or $\times 1,000$. Write the letter of the conversion in the correct box.

- A kilograms to dekagrams
- B meters to millimeters
- C hectoliters to liters
- D grams to decigrams
- E dekaliters to liters
- F dekameters to centimeters

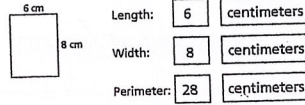
$\times 10$
D, E

$\times 100$
A, C

$\times 1,000$
B, F

Name _____ Date _____

6. Write the length and width of the rectangle. Then write the perimeter. Be sure to choose the correct unit, centimeters or square centimeters, for each answer.



7. For exercises 7a and 7b, complete the conversion. Then choose the operation and complete the equation to show how you found your answer.

7a. 240 seconds = 4 minutes

$$\begin{array}{r} \times 60 \\ \hline 240 \\ \div 60 \\ \hline 4 \end{array}$$

7b. 5 days = 120 hours

$$\begin{array}{r} \times 60 \\ \hline 5 \\ \times 24 \\ \hline 120 \end{array}$$

8. For exercises 8a–8d, choose Yes or No to tell whether the conversion between the metric units is correct.

- 8a. Divide by 100 to convert hectoliters to deciliters. Yes No
- 8b. Multiply by 10 to convert centigrams to decigrams. Yes No
- 8c. Divide by 1,000 to convert milligrams to grams. Yes No
- 8d. Multiply by 10 to convert hectometers to decameters. Yes No

Unit 5 Form A Answer Key - Study Guide

Name _____ Date _____

9. A pumpkin weighs 80 ounces in July. At the county fair in October, it weighs 250 pounds.

Part A

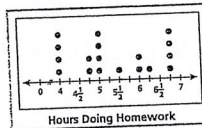
How many pounds did the pumpkin weigh in July? 5 pounds

Part B

Use words and numbers to show that the pumpkin gained more than 240 pounds after three months.

Possible explanation: The pumpkin gained 245 pounds, which is greater than 240 pounds. Since $16 \text{ oz} = 1 \text{ pound}$ and $16 \times 5 = 80$, then $80 \text{ oz} = 5 \text{ pounds}$. The difference from July to October is $250 - 5$ or 245 pounds.

10. Julio asked his friends how much time they spend each week doing homework. He displayed the data in the line plot shown. How many friends did Julio ask about the time spent doing homework?



Julio asked 18 friends.

11. Which liquid measure is equivalent to 43 dekaliters? Mark all that apply.

- A 430 liters
- B 430,000 centiliters
- C 4.3 hectoliters
- D 430,000 milliliters
- E 43,000 deciliters
- F 0.43 centiliters

Name _____ Date _____

12. For exercises 18a–18e, choose True or False for the conversion.

- 18a. $6 \text{ lb} = 48 \text{ oz}$ True False
- 18b. $4 \text{ pt} = 2 \text{ qt}$ True False
- 18c. $5 \text{ yd} = 60 \text{ ft}$ True False
- 18d. $8 \text{ gal.} = 32 \text{ pt}$ True False
- 18e. $36 \text{ in.} = 3 \text{ ft}$ True False

13. A concert starts at 2:55 P.M. and is exactly 1 hour and 45 minutes long.

Part A

What time does the concert end? 4:40 P.M.

Part B

It takes Seung 35 minutes to get to the arena where the concert is being held. She wants to meet her friends at the arena at least 10 minutes before the concert starts. What is the latest time Seung can leave her house? Explain how you found your answer.

2:10 P.M.; Possible explanation: I added the time Seung wants to meet her friends before the concert starts with the time it takes her to get to the arena. $35 + 10 = 45$ minutes; I then subtracted this time from the start time of the concert. 45 minutes before 2:55 is 2:10.

15. Choose a number from the first column and a unit from the second column to make a measurement that is equivalent to 3.6 grams.

Number	Unit
<input type="radio"/> 36	<input type="radio"/> milligrams
<input type="radio"/> 360	<input type="radio"/> decigrams
<input type="radio"/> 36,000	<input type="radio"/> kilograms

- 1 A scale model of a lizard is 4 centimeters long. The actual lizard is 9 times as long as the model. How long is the actual lizard in millimeters?

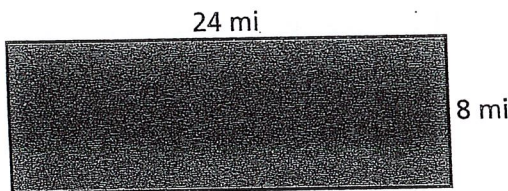
_____ millimeters

- 2 Describe the relationship between these units of time: days, hours, and minutes.

- 3 Complete the table that relates liters and milliliters.

Liters	Milliliters
1	_____
2	_____
3	3,000
4	_____

- 4 What is the area of the rectangle?



_____ square miles

- 5 Classify the conversion as using $\times 10$, $\times 100$, or $\times 1,000$. Write the letter of the conversion in the correct box.

- | | |
|----------------------------|-------------------------------|
| (A) kilograms to dekagrams | (D) grams to decigrams |
| (B) meters to millimeters | (E) dekaliters to liters |
| (C) hectoliters to liters | (F) dekameters to centimeters |

$\times 10$

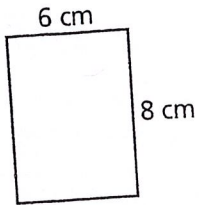
$\times 100$

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Name _____

Date _____

- 6 Write the length and width of the rectangle. Then write the perimeter. Be sure to choose the correct unit, centimeters or square centimeters, for each answer.



Length:

Width:

Perimeter:

- 7 For exercises 7a and 7b, complete the conversion. Then choose the operation and complete the equation to show how you found your answer.

7a. 240 seconds = minutes

240

 $\times 60$ $\div 60$ $\times 24$ $\div 24$

= _____

7b. 5 days = hours

5

 $\times 60$ $\div 60$ $\times 24$ $\div 24$

= _____

- 8 For exercises 8a–8d, choose Yes or No to tell whether the conversion between the metric units is correct.

8a. Divide by 100 to convert hectoliters to deciliters.

 Yes No

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 Yes No

8c. Divide by 1,000 to convert milligrams to grams.

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 Yes No

- 9 A pumpkin weighs 80 ounces in July. At the county fair in October, it weighs 250 pounds.

Part A

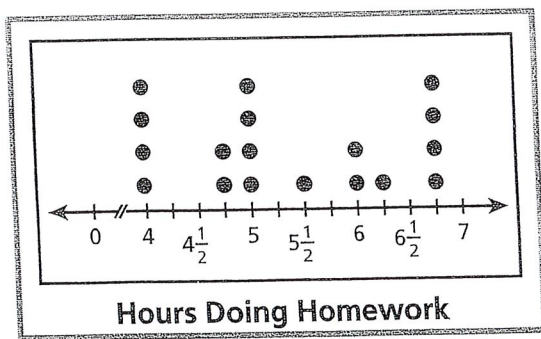
How many pounds did the pumpkin weigh in July?

_____ pounds

Part B

Use words and numbers to show that the pumpkin gained more than 240 pounds after three months.

- 10 Julio asked his friends how much time they spend each week doing homework. He displayed the data in the line plot shown. How many friends did Julio ask about the time spent doing homework?



Julio asked friends.

- 11 Which liquid measure is equivalent to 43 dekaliters?
Mark all that apply.

- | | |
|-------------------------|-------------------------|
| (A) 430 liters | (D) 430,000 milliliters |
| (B) 430,000 centiliters | (E) 43,000 deciliters |
| (C) 4.3 hectoliters | (F) 0.43 centiliters |

Name _____

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