

Math Test Notice

Dear Parent(s) and Student,

We will be having a post assessment over the Unit 4. Equations & Word problems 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 1-12.

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 4 concepts with my child.

Parent signature _____

Student signature _____

Date: _____

For Parents eyes

Unit 4 Form A Name _____ Date _____

1 The number of gray pigeons on a wire is 6 times the number of white pigeons. Choose one expression from each column to create an equation that compares the number of gray pigeons (g) and white pigeons (w).

<input type="radio"/> $g + 6$	<input type="radio"/> $w - 6$
<input type="radio"/> $6g$	<input type="radio"/> $6w$
<input type="radio"/> g	<input type="radio"/> $w + 5$
<input type="radio"/> $g - 6$	<input type="radio"/> w

Possible answers: $g = 6w$; $g \div 6 = w$

2 Ralph did 165 jumping jacks last week. He did 237 jumping jacks this week. How many jumping jacks (j) did Ralph do over these two weeks? Write an equation. Then solve.

Equation: $165 + 237 = j$

$j = 402$ jumping jacks

3 Andre chats online with friends 160 minutes each week. Write equations to find how many minutes he chats online in 5 weeks and in 9 weeks.

Equations: $5 \times 160 = t$
 $9 \times 160 = m$

Use the equations to complete the table.

Weeks	Total Minutes
1	160
5	800
9	1,440

4 Solve for n .

$(13 + 17) \div (13 - 7) = n$

$n = 5$

UNIT 4 TEST | Form A 107

Unit 4 Form A Name _____ Date _____

9 For exercises 9a–9e, choose Yes or No to tell whether the number is prime.

9a. 64 Yes No
 9b. 87 Yes No
 9c. 73 Yes No
 9d. 81 Yes No
 9e. 59 Yes No

10 Classify each number from the list as being a multiple of 2, 5, or 7. Write each number in the correct box. A number can be written in more than one box.

21 70 28 40 45 36

Multiple of 2 70, 28, 40, 36	Multiple of 5 70, 40, 45	Multiple of 7 21, 70, 28
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11 Use the rule to find the next 3 terms in the pattern.

Rule: multiply by 3

3, 9, 27, 81, 243, 729, 2,187, ...

12 Draw the next term of the pattern.

UNIT 4 TEST | Form A 109

Unit 4 Form A Name _____ Date _____

5 There are 2,571 fish in a lake. That is 3 times the number of fish that lived in the lake 5 years ago. How many fish lived in the lake 5 years ago? Write an equation. Then solve.

Possible equation: $3f = 2,571$ or $2,571 \div 3 = f$
 $f = 857$; 857 fish lived in the lake 5 years ago.

6 A snack shop sold 573 bags of popcorn in 3 sizes: small, medium, and large. It sold 154 small and 237 medium bags. How many large bags of popcorn were sold? Select numbers from the list to complete the equation. Then solve.

3 154 237 573

$l = 573 - (154 + 237)$ Alternative equation:
 $l = 573 - (237 + 154)$

$l = 182$ large bags of popcorn

7 Select the factor pair for 63. Mark all that apply.

A 3, 21 C 1, 63 E 4, 16
 B 6, 11 D 5, 13 F 7, 9

8 Is a multiple of the prime number 2 also a prime number? Circle your answer.

Yes No

Explain your reasoning.

Possible explanation: In addition to itself and 1, a multiple of 2 will have 2 and another number as a factor pair. So, the number must be a composite number.

UNIT 4 TEST | Form A 108

Unit 4 Form A Name _____ Date _____

13 Two friends are planning a 116-mile canoe trip that will last 4 days. They want to travel the same number of miles each day. How many miles will they travel each day?

Choose the equation that can be used to solve this problem. Mark all that apply.

A $116 \div 4 = m$ D $116 = 4 \div m$
 B $116 \times 4 = m$ E $116 \div m = 4$
 C $4 = 116 \times m$ F $4 \times m = 116$

14 A website gets a large number of hits on Saturday. Then it gets 1,060 more hits on Sunday. The website gets 12,565 hits during these two days. How many hits did the website get on Saturday? Identify the type of comparison as addition or multiplication. Then write and solve an equation to solve the problem.

Type of comparison: addition

Equation: $h + 1,060 = 12,565$

Answer: 11,505 hits

15 For exercises 15a–15d, select True or False for the calculation.

15a. $(4 + 2) + (8 - 2) = 36$ True False
 15b. $48 \div (9 + 3) = 4$ True False
 15c. $(27 + 8) \div 5 = 28 \div (5 - 1)$ True False
 15d. $(73 - 13) \div (3 + 2) = 22$ True False

UNIT 4 TEST | Form A 110

- 1 The number of gray pigeons on a wire is 6 times the number of white pigeons. Choose one expression from each column to create an equation that compares the number of gray pigeons (g) and white pigeons (w).

<input type="radio"/> $g \div 6$	<input type="radio"/> $w - 6$
<input type="radio"/> $6g$	<input type="radio"/> $6w$
<input type="radio"/> g	<input type="radio"/> $w + 5$
<input type="radio"/> $g - 6$	<input type="radio"/> w

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- 2 Ralph did 165 jumping jacks last week. He did 237 jumping jacks this week. How many jumping jacks (j) did Ralph do over these two weeks? Write an equation. Then solve.

Equation: _____

$j =$ _____ jumping jacks

- 3 Andre chats online with friends 160 minutes each week. Write equations to find how many minutes he chats online in 5 weeks and in 9 weeks.

Equations: _____

Use the equations to complete the table.

Weeks	Total Minutes
1	160
5	
9	

- 4 Solve for n .

$(13 + 17) \div (13 - 7) = n$

$n =$

- 5 There are 2,571 fish in a lake. That is 3 times the number of fish that lived in the lake 5 years ago. How many fish lived in the lake 5 years ago? Write an equation. Then solve.

- 6 A snack shop sold 573 bags of popcorn in 3 sizes: small, medium, and large. It sold 154 small and 237 medium bags. How many large bags of popcorn were sold? Select numbers from the list to complete the equation. Then solve.

3 154 237 573

$l =$ $-$ ($+$)

$l =$ _____ large bags of popcorn

- 7 Select the factor pair for 63. Mark all that apply.

A 3, 21 C 1, 63 E 4, 16

B 6, 11 D 5, 13 F 7, 9

- 8 Is a multiple of the prime number 2 also a prime number? Circle your answer.

Yes No

Explain your reasoning.

9 For exercises 9a–9e, choose Yes or No to tell whether the number is prime.

- 9a. 64 Yes No
- 9b. 87 Yes No
- 9c. 73 Yes No
- 9d. 81 Yes No
- 9e. 59 Yes No

10 Classify each number from the list as being a multiple of 2, 5, or 7. Write each number in the correct box. A number can be written in more than one box.

21	70	28	40	45	36
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Multiple of 2	Multiple of 5	Multiple of 7
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11 Use the rule to find the next 3 terms in the pattern.

Rule: multiply by 3

3, 9, 27, 81, , , , ...

12 Draw the next term of the pattern.



13 Two friends are planning a 116-mile canoe trip that will last 4 days. They want to travel the same number of miles each day. How many miles will they travel each day?

Choose the equation that can be used to solve this problem. Mark all that apply.

- A $116 \div 4 = m$
- B $116 \times 4 = m$
- C $4 = 116 \times m$
- D $116 = 4 \div m$
- E $116 \div m = 4$
- F $4 \times m = 116$

14 A website gets a large number of hits on Saturday. Then it gets 1,060 more hits on Sunday. The website gets 12,565 hits during these two days. How many hits did the website get on Saturday? Identify the type of comparison as addition or multiplication. Then write and solve an equation to solve the problem.

Type of comparison: _____

Equation: _____

Answer: _____ hits

15 For exercises 15a–15d, select True or False for the calculation.

- 15a. $(4 + 2) + (8 - 2) = 36$ True False
- 15b. $48 \div (9 + 3) = 4$ True False
- 15c. $(27 + 8) \div 5 = 28 \div (5 - 1)$ True False
- 15d. $(73 - 13) \div (3 + 2) = 22$ True False