

Name: _____ Date: _____ Homeroom: _____

5th Grade Math: Unit 1 Test

Multiple Choice

Identify the choice that best completes the statement or answers the question.

_____ 1. Which of these is **NOT** equivalent to 24×8 ?

a. $25 \times 8 - 8$

c. $(20 \times 8) + (4 \times 8)$

b. $24 \times 10 - 48$

d. $24 \times 8 - 24$

_____ 2. Using the order of operations, what should you do first to solve this problem?

$22 + 20 \times 36 - 4 =$

a. Add 22 and 20

c. Multiply 20 by 36

b. Subtract 4 from 36

_____ 3. Which statement is true about the numbers?

A. 3,825	B. 1,387
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a. The value of the 3 in choice A is 10 times the value than the 3 in choice B.

b. The value of the 3 in choice A is $\frac{1}{10}$ the value of the 3 in choice B.

c. The value of the 3 in choice A is equal to the value of the 3 in choice B.

_____ 4. What number is expressed by $(5 \times 10^4) + (8 \times 10^3) + (6 \times 10^2) + (3 \times 10^1) + (1 \times 10^0)$?

a. $(504) + (803) + (602) + (301) + (11) = 2,221$

b. $(54) + (83) + (62) + (31) + (2) = 232$

c. $(50000) + (8000) + (60) + (30) + (1) = 58,091$

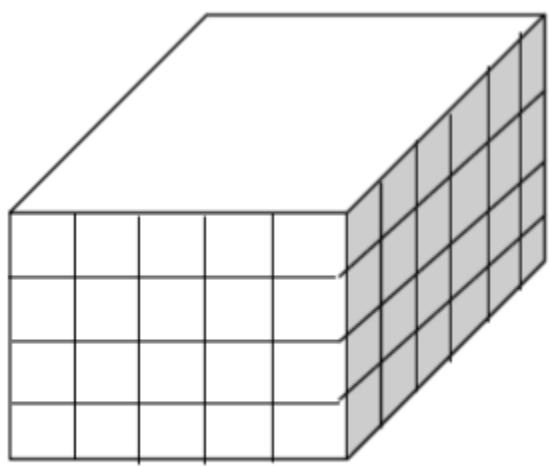
d. $(5 \times 10000) + (8 \times 1000) + (6 \times 100) + (3 \times 10) + (1 \times 1) = 58,631$

- _____ 5. The diameter of Mars is about 10^4 kilometers. What is 10^4 ?
- a. 104
 - b. 10,000
 - c. 100,000
 - d. 10.4

- _____ 6. What is the product of 406×32 ?
- a. 268, 992
 - b. 269, 992
 - c. 269,392
 - d. 12,992

- _____ 7. A farmer needs to ship 1,928 apples to a grocery store. If each crate holds 48 apples, how many **full** crates will the farmer be able to ship?
- a. 40 crates
 - b. 41 crates
 - c. 92 crates
 - d. 50 crates

- _____ 8. How many cubes will fit in the box?



- a. 240 cubes
- b. 120 cubes
- c. 80 cubes
- d. 30 cubes

- _____ 9. What is the volume of a cube in which all sides are 2 inches?
- a. 2 in^3
 - b. 6 in^3
 - c. 4 in^3
 - d. 8 in^3

_____ 10. Which statement is true about the numbers?

A. 825.43	B. 384.59
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- a. The value of the 4 in choice A is 10 times the value than the 4 in choice B.
- b. The value of the 4 in choice A is $\frac{1}{10}$ the value of the 4 in choice B.
- c. The value of the 4 in choice A is equal to the value of the 4 in choice B.

_____ 11. Thomas Edison bought a box of breakfast bars for \$9.75. Which of the following shows how much the _____ box of cereal costs in **expanded form**?

- a. $(9 \times 1) + (7 \times 10) + (5 \times 100)$
- b. $(9 \times 1) + (7 \times \frac{1}{10}) + (5 \times \frac{1}{1000})$
- c. $9 + (7 \times \frac{1}{10}) + (5 \times \frac{1}{100})$
- d. $9 \times (7 \times 10) + (5 \times 100)$

Solve the following expressions:

12. 417×92

13. 3182 divided by 46

14. $56.321 \times 10^4 =$

15. $344.64 \div 10^2 =$

16. $4 \times 3 - 6 + (4 \div 2) =$

17. Write the letter of the correct answer in the blank next to the word problem.

___ Jerry is trying to earn two thousand seventy-nine dollars for some new video games. If he charges forty-seven dollars to mow a lawn, how many lawns will he need to mow to earn the money?	a. 55
___ $0.55 \times 10^2 =$	b. 48
___ A baker made 580 doughnuts. He puts them in boxes of a dozen. How many FULL boxes of doughnuts does he have?	c. 45

Constructed Response:

18. Write a word problem in which you would find the product of 74 and 28.

Grading Rubric

* essential standards

<p>*5.NBT.1 I can recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left</p>	<p>_____/2 (3, 10)</p>
<p>*5.NBT.2 I can explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10</p>	<p>_____/5 (4, 5, 11, 14, 15)</p>
<p>*5.NBT.5 I can fluently multiply multi-digit whole numbers using the standard algorithm or other strategies</p>	<p>_____/5 (6, 12, 17.2, 18)</p>
<p>5.NBT.6 I can fluently divide up to 4-digit dividends and 2-digit divisors by using partial quotients or other strategies</p>	<p>_____/4 (7, 13, 17.1, 17.3)</p>
<p>5.OA.1 I can use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols</p>	<p>_____/3 (1, 2, 16)</p>
<p>5.MD.4 Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.</p>	<p>_____/2 (8, 9)</p>
<p>Total</p>	<p>_____/20</p>