

Study Guide

Benchmark Assessment (Topics 1-4)

Concepts to Know:

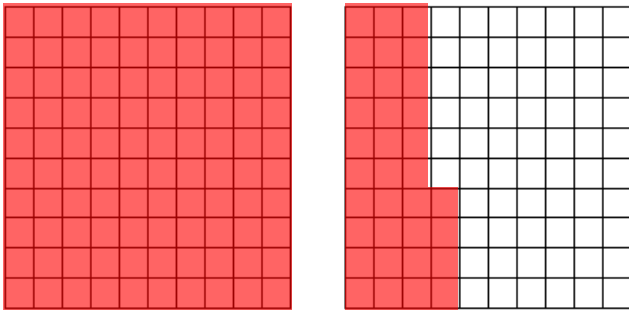
- Place value
 - How to write fractions as decimals and decimals as fractions
 - Comparing and ordering decimals
 - Value of each digit in a decimal number
 - Standard, word, and expanded form of whole numbers and decimals
- Adding and Subtracting decimals
 - Rounding decimals
 - Estimating sums and differences of decimals
 - Adding and subtracting decimals with algorithm
- Multiplying Whole Numbers
 - Multiplication properties (identity, zero, associative, commutative)
 - Mental multiplication and estimation
 - Exponents
 - Distributive property
 - Multiplying with the algorithm
 - Drawing a picture to represent multiplication
- Dividing by 1-digit Divisors
 - Dividing multiples of 10 and 100 mentally
 - Estimating quotients
 - Dividing using the algorithm
 - Drawing a picture to represent division

Practice Problems

1. Write the standard form of $3,000,000 + 400,000 + 5,000 + 600 + 30 + 1$

2. Write the word form of 14,837,290.

3. What decimal is shown by the grid below?



4. What is the value of the underlined digit in $92.07\underline{4}$?

5. Round $837.\underline{1}58$ to the place of the underlined digit.

6. Miss Emery needs to buy a piñata for \$4.98, candy for \$3.97, and paper plates for \$2.85 for her birthday party. She has \$10 in her wallet. Will she have enough money to buy the party supplies? How do you know?

7. Solve to following problem: $62.03 - 8.09 = ?$

8. Olivia buys a Hershey's bar for \$1.15, a pack of gum for \$0.85, and a Laffy Taffy for \$0.45. How much does she spend?

9. Estimate the product: $48 \times 8 \times 22 = ?$

10. Multiply to solve: $983 \times 48 = ?$

11. What is 5^4 written in standard form **and** expanded form?

12. Which multiplication property does the equation below represent?

$$9 \times (3 \times 4) = (9 \times 3) \times 4$$

13. Logan has 28 pictures in an album. Megan has 5 times more. She drew this picture to find out how many pictures she has.

n number of pictures

28	28	28	28	28
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Which equation represents this problem?

- a. $5 \times 28 = n$
- b. $n \times 28 = 5$
- c. $n \times 5 = 28$
- d. $28 \times 28 \times 28 \times 28 \times 28 = ?$

14. Which expression shows how you can solve 8×54 using mental math?

- a. $(8 \times 50) + (8 \times 4)$
- b. $(8 \times 5) + (8 \times 4)$
- c. $(8 \times 50) \times (8 \times 4)$
- d. $(8 \times 50) + (8 \times 40)$

15. Max sold 36 pumpkins. Each family bought 3 pumpkins. Draw a picture **and** write an equation to show the number of families that bought pumpkins at Max's Pumpkin Patch.

16. Which problem is equivalent to $720 \div 90$?

- a. $720 \div 9$
- b. $720 \div 900$
- c. $7,200 \div 90$
- d. $7,200 \div 900$

17. Mrs. Wallace has 763 donuts. She splits them between the four fifth grade classes. How many donuts will each class get?