

## 6<sup>th</sup> Grade Math Common Assessment: Chapter 1

Name: \_\_\_\_\_ Date \_\_\_\_\_

### 6.NS.2

1.) An apple orchard harvested 3,584 apples and separated them evenly into 112 bags. **Show your work.**

a.) How many apples are in each bag? \_\_\_\_\_

b.) If 56 apples were placed in each bag instead, how many bags would be left over? \_\_\_\_\_

2.) A city ordinance requires that there be a police officer for every 450 residents. If the population of the city is 560,250, what is the minimum number of police officers needed? \_\_\_\_\_

**Show your work.**

### 6.EE.1

3. Which of the following expressions is equal to 64?

Ⓐ  $2^4$

Ⓑ  $8^2$

Ⓒ  $6^3$

Ⓓ  $2^6$

Ⓔ  $4^3$

### 6.EE.3

Use the **commutative** property to solve. *Show your work.*

4.)  $18 + 6 + 12 + 4$

5.)  $8 \times 13 \times 5$

Use the **distributive** property to find each product. *Show your work.*

6.)  $7 \times 24$

Use the **associative** property to solve. *Show your work.*

7.)  $12 + 16 + 24 + 9$

## 6<sup>th</sup> Grade Math Common Assessment: Chapter 2

Name: \_\_\_\_\_ Date \_\_\_\_\_

### 6.EE.2.a.

1.) The zoo has lions, tigers, and bears. There are  $t$  tigers in the zoo.

a.) Write an expression to show how many lions are in the zoo if there are 3 more lions than tigers?

\_\_\_\_\_

b.) Write an expression to show how many bears are in the zoo if the number of bears is two times the number of lions?

\_\_\_\_\_

### 6.EE.2.b

2.) Use the expression  $56xy + 5 - 6x + \frac{y}{20}$ , to answer the following questions.

a.) Identify two sums.

\_\_\_\_\_

\_\_\_\_\_

b.) Identify the terms of the expression.

\_\_\_\_\_

\_\_\_\_\_

c.) Identify a product of two factors. Find the coefficient in the product.

\_\_\_\_\_

\_\_\_\_\_

d.) Identify the quotient.

\_\_\_\_\_

**6.EE.2.c**

3.) Evaluate the expression  $5y + (14 - 9) \times 2^3$  if  $y = 8$ .

*Show your work.*

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**6.EE.6 and 6.EE.7**

Solve each equation.

4.)  $6 + p = 10$  \_\_\_\_\_

5.)  $20 = k - 17$  \_\_\_\_\_

6.)  $11t = 110$  \_\_\_\_\_

7.)  $z \div 13 = 4$  \_\_\_\_\_

**6.EE.2 and 6. EE.6**

8.) On the first day Corey did 35 sit-ups. On the second day he did 70 sit-ups, and on the third day he did 105 sit-ups.

If Corey continues this pattern, how many sit-ups will he do in ***d*** days?

\_\_\_\_\_

Day	Number of Sit-ups
1	35
2	70
3	105
<b><i>d</i></b>	<b>?</b>

## 6<sup>th</sup> Grade Math Common Assessment: Chapter 3

Name: \_\_\_\_\_ Date \_\_\_\_\_

### EE.7 & NS.3

1.) Adam is saving money to buy a computer. He saves  $s$  dollars each week. After 7 weeks, he has \$173.25 saved.

a.) Write an equation that models the situation.

\_\_\_\_\_

b.) How much does Adam save each week? \_\_\_\_\_  
**Show your work.**

c.) The computer Adam wants to buy is \$321.75. How many more weeks does he have to save to buy the computer? Write an equation to model this situation and solve. **Show your work.**

Equation: \_\_\_\_\_

How many more weeks does Adam have to save to buy the computer?  
\_\_\_\_\_

### 6.NS.3

2.) Evaluate.

$$6.41 + 5.8 + 11.01 = \underline{\hspace{2cm}}$$

3.) Evaluate.

$$6.28 - s \quad s = 3.4$$

\_\_\_\_\_

4.) Write 65.78 in expanded notation and in words.

a.) Expanded Notation: \_\_\_\_\_

b.) Word Form: \_\_\_\_\_

5.) Order decimals from least to greatest.

11.12, 10.99, 11.09

\_\_\_\_\_

6.) Estimate.

$$98.567 \div 4.93 = \underline{\hspace{2cm}}$$

## 6<sup>th</sup> Grade Math Common Assessment: Chapter 4

Name: \_\_\_\_\_ Date \_\_\_\_\_

### 6.NS.4

1.) Write the prime factorization of 48. \_\_\_\_\_

**Show work.**

2.) Find the greatest common factor of 12, 18, and 60. \_\_\_\_\_

**Show work.**

3.) Use the distributive property to write an equivalent expression to  $5(x + 3)$ .

\_\_\_\_\_

4.) Consider the sum  $36 + 45$ .

a.) Use the distributive property to rewrite the sum as the product of a whole number other than 1 and a sum of two whole numbers.

\_\_\_\_\_

b.) Write the sum as the product of a whole number different from the one you chose in part a and a sum of two whole numbers.

\_\_\_\_\_

c.) Can this be done in more than two ways? Explain.

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



5.) Write decimal as a fraction or mixed number. Simplify your answer.

a.) 0.49 \_\_\_\_\_

b.) 1.80 \_\_\_\_\_

6.) Write as a decimal. Round to the nearest hundredth.

a.)  $\frac{4}{5}$  \_\_\_\_\_

b.)  $\frac{7}{9}$  \_\_\_\_\_

7.) Find two equivalent fractions of  $\frac{7}{8}$ .

\_\_\_\_\_

8.) Write as a mixed number or improper fraction. Solve in simplest form.

a.)  $2\frac{7}{9}$  \_\_\_\_\_

b.)  $\frac{11}{3}$  \_\_\_\_\_

9.) Order from least to greatest.

$\frac{3}{8}, \frac{5}{12}, \frac{1}{4}$  \_\_\_\_\_

## 6<sup>th</sup> Grade Math Common Assessment: Chapter 5

Name: \_\_\_\_\_ Date \_\_\_\_\_

### 6.NS.4

1.) Find the least common multiple of the following sets of numbers:

a.) LCM of 8 and 12 \_\_\_\_\_

b.) LCM of 6, 18, and 4 \_\_\_\_\_

2.) Charlie and Dasha are roommates, and they have a dog. If neither of them is home, they hire someone to watch the dog. Charlie must go on business trips every 6 months, while Dasha must go on business trips every 9 months.

If they both just got back from business trips, how many months will it be before they need to hire someone to look after the dog again? Explain your answer.

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**6.NS.1**

Solve in simplest form.

3.)  $\frac{1}{3} + \frac{1}{9} =$

4.)  $2\frac{3}{4} - \frac{7}{8} =$

5.)  $5\frac{2}{3} \times \frac{5}{7} =$

6.)  $2\frac{1}{4} \div 6 =$

Solve for y.

7.)  $3y = \frac{2}{3}$        $y = \underline{\hspace{2cm}}$

8.)  $\frac{4}{5}y = 12$        $y = \underline{\hspace{2cm}}$

Solve.

9.) How many  $\frac{1}{2}$  cup servings are there in  $\frac{7}{8}$  cup of peanut butter? \_\_\_\_\_

**Show your work.**

10.) Pat has a  $5\frac{2}{3}$  pound mixture of pecans and cashews. The mix includes  $2\frac{3}{4}$  pounds of cashews. How many pounds are pecans? \_\_\_\_\_

**Show your work.**

11.) *Juan was presented with the following problem on a math test:*

“Divide  $\frac{3}{4}$  by  $\frac{5}{7}$ . Show your work.” His work is shown below. What was

Juan’s error?  $\frac{5}{7} \div \frac{3}{4} = \frac{5}{7} \square \frac{4}{3} = \frac{20}{21}$

Correct his work and state the correct quotient.

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