

# Mathematics 8 Formative Quiz 3

Student Name: \_\_\_\_\_

N5 Solve math problems with rate, ratio, and proportion.

- 1. Two out of three of the animals at a pet store are fish. How many of the 99 animals at the pet store are fish?
  - (A) 16.5 fish
  - 33 fish
  - © 66 fish
  - 94 fish

N5 Solve math problems with rate, ratio, and proportion.

#### 2. Create a proportion for the following problem:

A cake recipe needs 3 cups of flour for every 2 cups of milk. The bakers use 18 cups of flour, how many cups of milk will they need?

N6 Multiply and divide fractions and mixed numbers.

$$\frac{2}{3} + \frac{5}{9} \div \frac{2}{3} - \frac{1}{6}$$

- (B)  $1\frac{1}{3}$
- ©  $1\frac{4}{15}$
- ①  $1\frac{1}{15}$

N6 Multiply and divide fractions and mixed numbers.

$$\frac{1}{3} + 2\frac{2}{3} \div \frac{3}{4} - \frac{5}{6}$$

- (B)  $3\frac{4}{18}$
- $\bigcirc$  1 $\frac{1}{2}$

## N7 Multiply and divide integers.

$$-6 \times (-7) - (-10) \div 2$$

- A 26
- ® 47
- © -9

## N7 Multiply and divide integers.

$$7 \times (-3) - (-25) \div (-5)$$

- ⊕ -16
- © -0.8
- ① 16

PR2 Model and solve problems using equations.

#### 7. Solve:

$$25=4(m-5)+17$$

- (A) m=5.75
- ® m=3.25
- © *m*=9

#### PR2 Model and solve problems using equations.

#### 8. Select the equation for the following situation:

Together Mike and Sara have 15 cookies. Mike has twice as many as Sara.

- (A) 2x = 15
- (B) 2x + x = 15
- © 2x x = 15
- ① x + x + 2 = 15

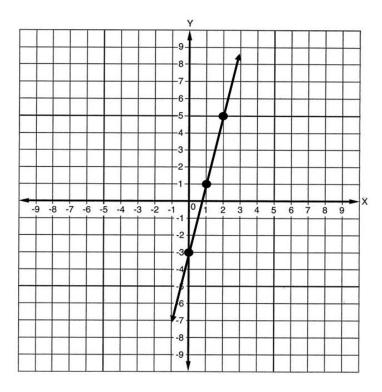
SS1 Know the Pythagorean Theorem, how it works, and how to use it in problem solving.

- 9. The bottom of a ladder that is 18 m long must be placed 7 m from a wall. How far above the ground does the ladder touch the wall? Round all decimals to the nearest meter.

  - **B** 147 m
  - © 16 m
  - ① 12 m

PR1 Be able to analyze and graph an equation with two variables.

10. Which equation represents the following graph?



- © 4x + 3 = y

## Mathematics 8

1. **(A) (B) (C) (D)** 

2. **(A) (B) (C) (D)** 

3. **(A) (B) (C) (D)** 

4. **(A) (B) (C) (D)** 

5. **A B C D** 

6. **A B C D** 

7. **(A) (B) (C) (D)** 

8. **A B C D** 

9. **(A) (B) (C) (D)** 

10. **A B C D**