

TEST PREP  
**5**

# Algebra

## Multiple Choice

*! point each.*

Fill in the circle next to the correct answer.

1. What does  $8y$  mean?

(A)  $8 + y$       ☒ (B)  $8 \times y$       (C)  $8 \div y$       (D)  $8 - y$

2. Florence makes  $y$  cards in 3 minutes. How many cards does she make in 1 minute?

(A)  $\frac{3}{y}$       (B)  $\frac{1}{y}$       ☒ (C)  $\frac{y}{3}$       (D)  $y$

3. Divide the sum of 18 and  $z$  by 7.  $\frac{18+z}{7}$

Which is the expression for the above division statement?

☒ (A)  $\frac{18+z}{7}$       (B)  $\frac{18+7}{z}$   
(C)  $z \div 7 + 18$       (D)  $18 + z \div 7$

4. For what value of  $x$  will  $2x = 8$  be true?

(A)  $x = 1$       (B)  $x = 2$       ☒ (C)  $x = 4$       (D)  $x = 6$

5. What is the value of the expression  $\frac{3p}{8} + 4$  when  $p$  is 32?

(A) 8      (B) 12      (C) 12.5      ☒ (D) 16

$$\begin{array}{r} 96 \\ \text{-----} \\ 8 \end{array} + 4$$

$$96 \text{ divided by } 8 = 12 + 4 = 16$$

*Extra Credit*

Name: Loz

Date: 1 - 15 - 2021

**Short Answer**

*1 point each*

**Write your answer in the space given.**

6. Write the expression for 100 less than the sum of 3 and  $x$ .

$$3 + x - 50$$

---

7. Harris has \$60. He spends  $y$  dollars. How much money does he have left?  
Give your answer in terms of  $y$ .

$$y - \$60$$

**Find the value of the expression when the variable has a value of 8.**

2 points

8. a.  $15y + 2$

$$120 + 2$$

b.  $(z + 24) \div 8 + 2$

$$(8 + 24) \div 8 + 2$$

**Write an expression.**

2 points

9. a. Multiply 6 by  $n$ .

$$6n$$

b. Half of  $t$ .

$$\frac{1}{2}t$$

2 points

10. a. Add 2 to  $m$ , then divide by 3. b. Divide 7 by  $r$ , then subtract 10.

$$\frac{2 + m}{3}$$

$$\frac{7}{r} - 10$$

Name: Loz

Date: 1 - 15 - 2021

**Solve. Show your work.**

2 points 14.

Beth had  $k$  dollars. She spent \$8 on a bag and the rest of the money on 4 notepads.

- a. Find the cost of each notepad in terms of  $k$ .

$$\frac{k - 8}{4}$$

- b. If Beth had \$16 at first, find the cost of each notepad.

$$\frac{16 - 8}{4} = 8/4 = \$2$$

3 points 15.

Bruce has  $(2m + 7)$  stamps and Gregory has  $(7m - 35)$  stamps. If  $m = 8$ ,

- a. how many stamps does each boy have?

$$\begin{array}{cc} (16 + 7) & (56 - 35) \\ 23 & 21 \end{array}$$

- b. who has more stamps?

Bruce has more stampys

- c. how many more stamps must one of the boys buy so that both boys have the same number of stamps?

Gregory needs to buy 2 more stamps to have number of stamps as Bruce.