



Algebra

$$-4 \frac{14}{18} + 1 = \frac{15}{18}$$

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

$$\frac{96}{8} + 4$$

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

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
- .

$$3 + x - 50$$

$$3 + x - 100$$

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

$$y - \$60$$

$$60 - y$$

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

8. a.
- $15y + 2$

$$120 + 2$$

$$122$$

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

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

$$6$$

Write an expression.

9. a. Multiply 6 by
- n
- .

$$6n$$

- b. Half of
- t
- .

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

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

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

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

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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.