

MATHEMATICS 9
4th Quarter Summative Test B
SY 2020-2021

I. Solve for the following equations.

a. $-85 + (-16) =$

b. $-115 - (-24) =$

c. $-45 \times 17 =$

d. $-27 \times (-18) =$

e. $144 \div (-6) =$

f. $96 \div 8 =$

II. Read and answer the word problems carefully.

1. The temperature on a cold winter day starts out at 10 degrees, but it drops quickly 24 degrees due to a strong cold wind moving in. What is the temperature now?	
2. A roller coaster begins at 90 feet above ground level. Then it descends 105 feet. Find the height of the roller coaster after it went down.	
3. A hiker starts climbing from 60 feet above sea level and keeps going until she reaches 250 feet above sea level. How many feet did she ascend?	
4. Stephanie has P400 in the bank. She withdraws P200, then she deposits P350. How much is her money in the bank now?	

III. Choose true or false.

- _____ 1. Variables are letters that represent the unknown number.
- _____ 2. $380 + 760$ is an algebraic expression.
- _____ 3. Letters x and y are the only letters should be used in writing algebraic expressions.

IV. Match the verbal phrases to its correct algebraic expression.

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| _____ 1. eight less than a number | a. $5y + 10$ |
| _____ 2. the sum of twelve and a number | b. $\frac{27}{3e}$ |
| _____ 3. the product of five and a number plus ten | c. $h - 8$ |
| _____ 4. fourteen subtracted from six times a number | d. $12 + q$ |
| _____ 5. twenty-seven divided by the sum of three and a number | e. $6g - 14$ |

V. Evaluate the algebraic equations below.

$a = 1$	$b = 3$	$c = 5$
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a. $b^2 + 4 =$

b. $6a - 3d =$

c. $9c + 10 =$

d. $\frac{8b}{6}$

e. $27a + 18 =$