

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

## Translating Phrases: Multi-Variable

MS3

Translate each verbal phrase into an algebraic expression.

1) Add 16 to 4 times the difference between  $s$  and  $t$

\_\_\_\_\_

2) Double of  $d$  reduced by  $b$ , increased by ratio of  $c$  to 6

\_\_\_\_\_

3) 5 times the

\_\_\_\_\_

4) Difference between  
product of  $v$

\_\_\_\_\_

5) The quotient

\_\_\_\_\_

6) 8 times  $g$ , and

\_\_\_\_\_

7) Multiply five

\_\_\_\_\_

8) Add one-half of the cube  $b$  and  $c$

\_\_\_\_\_

9) Twice of  $x$  minus the thrice of  $y$ , decreased by double of  $z$

\_\_\_\_\_

10) 9 times  $d$ , more than one-third of  $c$

\_\_\_\_\_

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## Answer Key

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### Translating Phrases: Multi-Variable

Translate each verbal phrase into an algebraic expression.

- 1) Add 16 to 4 times the difference between s and t

$$\underline{4(s - t) + 16}$$

- 2) Double of d reduced by b, increased by ratio of c to 6

$$\underline{2d - b + \frac{c}{6}}$$

- 3) 5 times the

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$$\underline{5m^3 + n}$$

- 4) Difference between  
product of v

$$\underline{\frac{1}{7} - \frac{3vw}{5}}$$

- 5) The quotient

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$$\underline{\frac{x}{y + z}}$$

- 6) 8 times g, and

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$$\underline{8g + 2h^2}$$

- 7) Multiply five

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$$\underline{\frac{5st}{9}}$$

- 8) Add one-half of the cube b and c

$$\underline{\frac{b^3}{2} + c}$$

- 9) Twice of x minus the thrice of y, decreased by double of z

$$\underline{(2x - 3y) - 2z}$$

- 10) 9 times d, more than one-third of c

$$\underline{\frac{c}{3} + 9d}$$