

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

## Translating Phrases

MS2

Translate each verbal phrase into an algebraic equation or inequality.

1) Multiplying the cube of  $x$ , the square of  $y$  and  $z$  gives 32 \_\_\_\_\_

2) Ratio of the sum of the square of  $t$  and 16 to 2 is lesser than 6 \_\_\_\_\_

3) Subtract one-fifth of  $m$  from  $n$  and the result is equal to 11 \_\_\_\_\_

4) Six-sevenths of  $p$  is equal to  $q$  \_\_\_\_\_

5) Total of 9 times  $r$  and 10 is equal to  $s$  \_\_\_\_\_

6) Add 8 times  $j$  and  $k$  \_\_\_\_\_

7) Difference between  $2x$  and  $3y$  is not equal to 24 \_\_\_\_\_

8) Product of 7 and the cube of  $v$  is equal to 56 \_\_\_\_\_

9) Two-sevenths of  $m$  increased by  $n$  is lesser than equal to 29 \_\_\_\_\_

10) Quotient of the difference between 6 and doubled  $d$  and 5 is greater than 2 \_\_\_\_\_

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## Answer Key

### Translating Phrases

MS2

Translate each verbal phrase into an algebraic equation or inequality.

- 1) Multiplying the cube of x, the square of y and z gives 32

$$\underline{x^3 y^2 z = 32}$$

- 2) Ratio of the sum of the square of t and 16 to 2 is lesser than 6

$$\underline{\frac{t^2 + 16}{2} < 6}$$

- 3) Subtract one-fifth of w from the sum of x and y equal to 11

$$\underline{4w^2 - \frac{1}{5} \neq 11}$$

- 4) Six-sevenths of h minus g is greater than or equal to 3

$$\underline{\frac{6h}{7} - g \geq 3}$$

- 5) Total of 9 times p and q is greater than 17

$$\underline{9p^3 + q > 17}$$

- 6) Add 8 times j and k to get a number less than 2

$$\underline{8j + \frac{1}{3} < 2}$$

- 7) Difference between 13 and 11 times b squared is not equal to 24

$$\underline{13 - 11b^2 \neq 24}$$

- 8) Product of 7 and the cube of v is equal to 56

$$\underline{7v^3 = 56}$$

- 9) Two-sevenths of m increased by n is lesser than equal to 29

$$\underline{\frac{2}{7} m + n \leq 29}$$

- 10) Quotient of the difference between 6 and doubled d and 5 is greater than 2

$$\underline{\frac{6 - 2d}{5} > 2}$$

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