



# TRANSLATING PHRASES

Name \_\_\_\_\_

Score \_\_\_\_\_

AE:19

Translate the phrases into algebraic expressions.

1) Twice the difference between  $m$  and  $n$

2) Total of  $y$  and five divided by  $x$

3)  $q$  square decreased by twice of  $p$

4)  $a$  times  $b$  whole cube

5)  $h$  added to the ratio of three and  $g$

6)  $k$  increased to the difference between  $j$  and eleven

7) Ratio of  $z$  and  $y$  plus quarter

8) Take away  $u$  cube from  $t$  cube

9)  $d$  multiplied to the sum of  $c$  and five

10) Product of  $v$  and  $w$  raised to its fourth power



# TRANSLATING PHRASES

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## Answer key

AE:19

Translate the phrases into algebraic expressions.

1) Twice the difference between m and n

$$2(m - n)$$

2) Total of y and five divided by x

$$\frac{y + 5}{x}$$

3) q square decreased by twice of p

$$q^2 - 2p$$

4) a times b whole cube

$$(ab)^3$$

5) h added to the ratio of three and g

$$h + \frac{3}{g}$$

6) k increased to the difference between j and eleven

$$k + (j - 11)$$

7) Ratio of z and y plus quarter

$$\frac{z}{y} + \frac{1}{4}$$

8) Take away u cube from t cube

$$t^3 - u^3$$

9) d multiplied to the sum of c and five

$$d(c + 5)$$

10) Product of v and w raised to its fourth power

$$vw^4$$