

Name : _____

Translating Phrases: Multi-Step Equations

MS2

Translate each verbal phrase into an algebraic equation.

1) One-half of the cube of k plus 6 is equivalent to 10

2) Four times the square of y minus three-fourths is 2

3) Difference between m and n divided by 7 is 4

4) 28 diminished by l is 10

5) 1 minus power of z is 10

6) Sum of 5 times h and 3 is 10

7) 12 divides total of g and h

8) 7 reduced by five-eighths of x is equal to 12

9) Five-ninths plus 4 times the square of h is equivalent to 1

10) The quotient of difference between 33 and the cube of g and 3 is 2

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Answer Key

Translating Phrases: Multi-Step Equations

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Translate each verbal phrase into an algebraic equation.

1) One-half of the cube of k plus 6 is equivalent to 10

$$\frac{k^3}{2} + 6 = 10$$

2) Four times the square of y minus three-fourths is 2

$$4y^2 - \frac{3}{4} = 2$$

3) Difference between 40 and 3t squared divided by 7 is 4

$$\frac{40 - 3t^2}{7} = 4$$

4) 28 diminished by 5x is 3

$$28 - 5x = 3$$

5) 1 minus b squared is three-fourths

$$1 - b^2 = \frac{3}{4}$$

6) Sum of 5 times c and one-half is 12

$$4\left(5c + \frac{1}{2}\right) = 12$$

7) 12 divides total of z cubed plus 4 is 5

$$\frac{z^3 + 4}{12} = 5$$

8) 7 reduced by five-eighths of x is equal to 12

$$7 - \frac{5x}{8} = 12$$

9) Five-ninths plus 4 times the square of h is equivalent to 1

$$\frac{5}{9} + 4h^2 = 1$$

10) The quotient of difference between 33 and the cube of g and 3 is 2

$$\frac{33 - g^3}{3} = 2$$

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