

Name : _____

Translating Phrases: Multi-Step Equations

MS3

Translate each verbal phrase into an algebraic equation.

1) The square of t decreased by 9 is divided by 6 is same as 12 _____

2) Difference between 2 and the cube of y gives seven-eighths _____

3) Total of thrice k _____

4) Ratio of the square of m to 4 _____

5) Two-thirds of q _____

6) One-half plus t _____

7) 6 divides sum of p and q _____

8) Doubled the square of n minus 4 gives one-half _____

9) One-sixth of the cube of k more than 8 is equal to 28 _____

10) Subtracting two-thirds from thrice the square of t represents 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) The square of t decreased by 9 is divided by 6 is same as 12

$$\frac{t^2 - 9}{6} = 12$$

2) Difference between 2 and the cube of y gives seven-eighths

$$2 - y^3 = \frac{7}{8}$$

3) Total of thrice b

$$3b + \frac{1}{4} = 6b$$

4) Ratio of the square of h to 6 is 14

$$\frac{h^2}{6} + 8 = 14$$

5) Two-thirds of q

$$23 - \frac{2q}{3} = 17$$

6) One-half plus t

$$\frac{1}{2} + 2m^3 = 1$$

7) 6 divides sum of

$$\frac{53 + 5t^2}{6} = 12$$

8) Doubled the square of n minus 4 gives one-half

$$2n^2 - 4 = \frac{1}{2}$$

9) One-sixth of the cube of k more than 8 is equal to 28

$$8 + \frac{k^3}{6} = 28$$

10) Subtracting two-thirds from thrice the square of t represents 2

$$3t^2 - \frac{2}{3} = 2$$

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