Name: _____ Date: _____

Fresh Math

Variables - Challenge

1. Evaluate $3x + 5y - 5z$ when $x=4$, $y=12$, $z=12$

2. Evaluate $5x + 3y - 5z$ when $x=3$, $y=6$, $z=10$

3. List all variables in: $2wx + 6z^2 - 8y$

4. List all variables in: $3zw + 7y^2 - 2x$

5. Evaluate $3x + 3y - 4z$ when $x=9$, $y=11$, $z=12$

6. What does $r \cdot w$ represent?

7. What does $r \cdot a$ represent?

8. In $d = v \cdot t$, identify all variables

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Variables – Challenge

9. List all variables in: $5x^2 + 5z - 7w$

10. What does $t \cdot V$ represent?

11. In $P = V \cdot I$, identify all variables

12. List all variables in: $5zx + 8w^2 - 2y$

13. In $d = v \cdot t$, identify all variables

14. In $P = V \cdot I$, identify all variables

15. What does $t \cdot a$ represent?

16. Evaluate $3x + 4y - 2z$ when $x=10$, $y=9$, $z=8$

Variables - Challenge - Answer Key

1. Evaluate $3x + 5y - 5z$ when $x=4$, $y=12$, $z=12$

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2. Evaluate $5x + 3y - 5z$ when $x=3$, $y=6$, $z=10$

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3. List all variables in: $2wx + 6z^2 - 8y$

   w, x, y, z

4. List all variables in: $3zw + 7y^2 - 2x$

   w, x, y, z

5. Evaluate $3x + 3y - 4z$ when $x=9$, $y=11$, $z=12$

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6. What does r cdot w represent?

   r=angle of rotation in radians, w=wavelength in nanometers

7. What does r cdot a represent?

   r=angle of rotation in radians, a=rate of acceleration in m/s^2

8. In d = v cdot t, identify all variables

   t=time (s), d=distance (m), v=velocity (m/s)

Variables - Challenge - Answer Key

9. List all variables in: $5x^2 + 5z - 7w$

   w, x, z

10. What does $t \cdot V$ represent?

    t=change in temperature, V=volume of a cylinder

11. In $P = V \cdot I$, identify all variables

    P=power (W), V=voltage (V), I=current (A)

12. List all variables in: $5zx + 8w^2 - 2y$

    w, x, y, z

13. In $d = v \cdot t$, identify all variables

    t=time (s), d=distance (m), v=velocity (m/s)

14. In $P = V \cdot I$, identify all variables

    P=power (W), V=voltage (V), I=current (A)

15. What does $t \cdot a$ represent?

    t=change in temperature, a=rate of acceleration in m/s^2

16. Evaluate $3x + 4y - 2z$ when $x=10$, $y=9$, $z=8$

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