

Overview of problems

🚩 🛛 Example Set: A

State the meaning of the variable expressions:

- 1. 4x + 2
- 2. 6a 3b
- 3. $\frac{y}{2} + 5$
- 4. d = rt
- 5. (x + y) + z

6.
$$\frac{7xyz}{(m-n)}$$



Example Set: B

Write as a variable expression:

- 1. 9 times *y* plus 5
- 2. (x plus m) divided by (2 times r)
- 3. *a* times *b* times *c* minus two



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- 4. *c* to the *z* powe
- 5. the difference of n and p





Evaluate the expressions:

- 1. 3x 2 when x = 9
- 2. 8a + 5c when a = 2, c = 10
- 3. 5y + 2(y 1) when y = 6
- 4. $(xyz)^n$ when x = 1, y = 2, z = 3, n = 4



Evaluate the expressions:

- 1. xy + (z 1) when x = 2, y = 4, z = 8
- 2. $[5x(4+x)] \div y$ when x = 3, y = 2



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- 3. $\frac{3.8a + 7.2x}{(x-a)}$ when a = 1.9, x = 2.5
- 4. $a^2 + b^2 = c^2$ when a = 3, b = 4, c = 5



Example Set: A -ANSWER KEY

State the meaning of the variable expression:

- 1. 4x + 2 = 4 times *x* plus 2
- 2. 6a 3b = 6 times *a* minus 3 times *b*
- 3. $\frac{y}{2} + 5 = y$ divided by 2 plus 5
- 4. d = rt = d equals r times t
- 5. (x + y) + z = the sum of x and y plus z
- 6. $\frac{7xyz}{(m-n)}$ = the product of 7, *x*, *y* and *z* divided by the difference of *m* and *n*



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Example Set: B- ANSWER KEY

Write as a variable expression:

- 1. 9 times y plus 5 = 9y + 5
- 2. (x plus m) divided by (2 times r) = $\frac{x+m}{2r}$
- 3. *a* times *b* times *c* minus two = abc 2
- 4. *c* to the *z* power = c^z
- 5. the difference of *n* and p = (n p)

Example Set: C-ANSWER KEY

Evaluate the expressions:

- 1. 3x 2 when x = 9 = 25
- 2. 8a + 5c when a = 2, c = 10 = 66
- 3. 5y + 2(y 1) when y = 6 = 40
- 4. $(xyz)^n$ when x = 1, y = 2, z = 3, n = 4 = 1296



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Example Set: D-ANSWER KEY

Evaluate the expressions:

- 1. xy + (z 1) when x = 2, y = 4, z = 8 = 15
- 2. $[5x(4+x)] \div y$ when x = 3, y = 2 = 52.5
- 3. $\frac{3.8a + 7.2x}{(x-a)}$ when a = 1.9, x = 2.5 = 42.03
- 4. $a^2 + b^2 = c^2$ when a = 3, b = 4, c = 5 = 25 = 25