

Algebraic expressions (2 or more variables)

Grade 5 Pre-Algebra Worksheet

Evaluate the following expressions for $a = 10$, $b = 8$ and $c = 4$

1. $b^2 =$ _____

11. $100bc =$ _____

2. $5a^2 =$ _____

12. $\left(\frac{2a}{b-3}\right)^3 =$ _____

3. $2a^2c =$ _____

13. $a^2 - b + 6 =$ _____

4. $(b - c)^2 =$ _____

14. $\frac{ac}{b} + \frac{2b}{c} =$ _____

5. $c^3 - 4 =$ _____

15. $15 - 2c + b =$ _____

6. $a^3 - 3c =$ _____

16. $\frac{b^2}{c} =$ _____

7. $\frac{6a}{c} + 4 =$ _____

17. $(16 - b)^2 - a =$ _____

8. $19 - 3c =$ _____

18. $\frac{a^3}{b-3} =$ _____

9. $a^2 - b^2 + 3 =$ _____

19. $2a + 3b - 4c =$ _____

10. $\frac{6a}{c-1} + b =$ _____

20. $b^2 - 20 =$ _____

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Evaluate the following expressions for $a = 10$, $b = 8$ and $c = 4$

1. $b^2 = \underline{64}$

11. $100bc = \underline{3\,200}$

2. $5a^2 = \underline{500}$

12. $\left(\frac{2a}{b-3}\right)^3 = \underline{64}$

3. $2a^2c = \underline{800}$

13. $a^2 - b + 6 = \underline{98}$

4. $(b - c)^2 = \underline{16}$

14. $\frac{ac}{b} + \frac{2b}{c} = \underline{9}$

5. $c^3 - 4 = \underline{60}$

15. $15 - 2c + b = \underline{15}$

6. $a^3 - 3c = \underline{988}$

16. $\frac{b^2}{c} = \underline{16}$

7. $\frac{6a}{c} + 4 = \underline{19}$

17. $(16 - b)^2 - a = \underline{54}$

8. $19 - 3c = \underline{7}$

18. $\frac{a^3}{b-3} = \underline{200}$

9. $a^2 - b^2 + 3 = \underline{39}$

19. $2a + 3b - 4c = \underline{28}$

10. $\frac{6a}{c-1} + b = \underline{28}$

20. $b^2 - 20 = \underline{44}$