



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. $b^2 - 20$ _____



Answers

1. $b^2 = 64$

11. $100bc = 3\,200$

2. $5a^2 = 500$

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

3. $2a^2c = 800$

13. $a^2 - b + 6 = 98$

4. $(b - c)^2 = 16$

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

5. $c^3 - 4 = 60$

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

6. $a^3 - 3c = 988$

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

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

17. $(16 - b)^2 - a = 54$

8. $19 - 3c = 7$

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

9. $a^2 - b^2 + 3 = 39$

19. $2a + 3b - 4c = 28$

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

20. $b^2 - 20 = 44$