

Order of Operations and Evaluating Expressions Assignment

Evaluate the expression for the given value of the variable.

1. $\frac{16}{n} + 2^3 - 10$ when $n = 8$

2. $r^5 - 12 \div r$ when $r = 3$

3. $b + 6 \div 4$ when $b = 1.5$

4. $3r^2 - 17$ when $r = 6$

5. $27 - \frac{24}{b}$ when $b = 8$

6. $\frac{9}{10} \cdot y - \frac{3}{10}$ when $y = \frac{1}{2}$

7. $2 \cdot x^3 + 4$ when $x = 3$

8. $8a$ when $a = 4$

9. $\frac{4}{3} \cdot x$ when $x = \frac{1}{6}$

10. $\frac{24}{x}$ when $x = 3$

11. $\frac{5}{16} - p$ when $p = \frac{3}{8}$

12. $(6w)^2$ when $w = 5$

13. $5s^2$ when $s = 16$

14. $4(t^3)$ when $t = 3$

15. $(7x)^3$ when $x = 2$

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Evaluate the expression for the given value of the variable.

16. $\frac{r^2 - 3}{4r}$ when $r = 3$

17. $\frac{6x - 3}{7 + (x^3 - 1)}$ when $x = 1$

18. $\frac{(9 - x)^2 + 4}{5}$ when $x = 3$

19. $\frac{y^5 - 12}{y(z^2 - 5)}$ when $y = 2$ and $z = 5$

20. $\frac{2(17 + 2x)}{y^2 - 11}$ when $x = 4$ and $y = 6$

Name: _____ Period: _____ Date: _____

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