

Homework: Order of Operations

Use “pemdas” to help simplify each expression. Check your work on a calculator and record keystrokes if your answers do not match each other.

1. $8 + 7 \cdot 9$ 71

MENU 1
8 + 7 * 9 EXE

11. $12 + 4^2$ 28

1 2 + 4 x^2 EXE

2. $35 - (17 - 2) \div 5$ 32

3 5 - (1 7 - 2) ÷ 5 EXE

12. $24 - 9 \cdot 2 + 6 \div 3$ 8

2 4 - 9 * 2 + 6 ÷ 3 EXE

3. $\frac{90 - 22}{28 - 11}$ 4

(9 0 - 2 2) ÷ (2 8 - 1 1) EXE

13. $\frac{45}{9} + 3$ 8

4 5 ÷ 9 + 3 EXE

4. $12(2 + 7) - 24 \div 12$ 106

1 2 (2 + 7) - 2 4 ÷ 1 2 EXE

14. $4(9 - 3) \div (8 - 2)$ 4

4 (9 - 3) ÷ (8 - 2) EXE

5. $26 - [(25 - 11) - 2^3]$ 20

2 6 - ((2 5 - 1 1) - 2 ^ 3) EXE

15. $(8^2 - 2^5) \div (24 \div 6) + 3^2$ 17

(8 x^2 - 2 ^ 5) ÷ (2 4 ÷ 6) + 3 x^2 EXE

6. $\frac{12(30 - 12)}{3^2}$ 24

1 2 (3 0 - 1 2) ÷ 3 x^2 EXE

16. $\frac{5(16 - 5) - 1}{4^2 - 7}$ 6

(5 (1 6 - 5) - 1) ÷ (4 x^2 - 7) EXE

Substitute and evaluate: $x = 8$, $y = 6$, $m = 3$, $p = \frac{1}{2}$, $n = \frac{3}{4}$

7. $4x - 2m$ 26

4 * 8 - 2 * 3 EXE

17. $5y + 8p$ 34

5 * 6 + 8 * 3 a/2 4 EXE

8. $nxy \div m$ 12

3 a/4 4 * 8 * 6 ÷ 3 EXE

18. $2(3x + 6) \div (10m)$ 2

2 (3 * 8 + 6) ÷ (1 0 * 3) EXE

9. $2ny + x$ 17

2 * 3 a/2 4 * 6 + 8 EXE

19. $(x + y) \div p$ 28

(8 + 6) ÷ 1 a/2 2 EXE

10. $6p + 8n$ 9

6 * 1 a/2 2 + 8 * 3 a/4 EXE

20. $my - 2x$ 2

3 * 6 - 2 * 8 EXE

