

Use "PEMDAS" to help simplify each expression.

1.  $8 + 7 \cdot 9$

2.  $12 + 4^2$

3.  $35 - (17 - 2) \div 5$

4.  $24 - 9 \cdot 2 + 6 \div 3$

5.  $\frac{90 - 22}{28 - 11}$

6.  $\frac{45 + 3}{9}$

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

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

9.  $26 - [(25 - 11) - 2^3]$

10.  $(8^2 - 2^5) \div (24 \div 6) + 3^2$

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

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

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

13.  $4x - 2m$

14.  $5y + 8p$

15.  $nxy \div m$

16.  $2(3x + 6) \div (10m)$

17.  $2ny + x$

18.  $(x + y) \div p$

19.  $6p + 8n$

20.  $my - 2x$