

Order of operations practice answers:

Use the order of operations correctly to calculate:

1. $12 - 4 + 3$

Do $12 - 4$ first (left to right): **11**

2. $90 \div 5 \div 2 \times 3$

All \times and \div so do left to right: **27**

3. $5 \cdot 6^2 \div 9$

Do exponent, then do left to right: **20**

4. $100 - 5 \cdot 3^2 + 12 \div 3 \times 4$

Exponent first:

$$100 - 5 \cdot 9 + 12 \div 3 \times 4$$

Then do 5×9 and do $12 \div 3 \times 4$ left to right: **71**

5. $7 + 2 \cdot 4 - 3$

Do multiplication first, and then do $+$ and $-$ left to right: **12**

6.
$$\frac{9+15}{6-2}$$

Numerator and denominator are grouped: do those first, then divide: **6**

7. $8 - 5 + 2$

All $+$ and $-$ so do left to right: **5**

8. $30 \div 3 \div 2 \times 5$

All \times and \div so do left to right: **25**

9. $3 \cdot 4^2 \div 2$

Exponent first, then left to right: **24**

10. $50 - 3 \cdot 2^2 + 12 \div 2 \times 3$

Exponent first, then group \times and \div (left to right). Then do $+$ and $-$ left to right:

$$\begin{aligned} 50 - 3 \cdot 2^2 + 12 \div 2 \times 3 \\ &= 50 - 3 \cdot 4 + 12 \div 2 \times 3 \\ &= 50 - (3 \cdot 4) + (12 \div 2 \times 3) \\ &= 50 - (12) + (6 \times 3) \\ &= 50 - (12) + (18) \\ &= 38 + 18 = 56 \end{aligned}$$

11. $3 + 3 \cdot 3 - 3$

Multiply, then do $+$ and $-$ left to right:

9

12. $10 + 30 \div 5 \times 2$

\times and \div left to right, then add:

$$10 + (30 \div 5 \times 2) = 22$$

13.
$$\frac{10+30}{5 \times 2}$$

Do numerator and denominator separately, then combine:

$$\frac{40}{10} = 4$$