

5-Step Order of Operations: Spiral Review Answer Key

A) Evaluate

1. $(9+4)=13 \rightarrow (8-5)=3 \rightarrow 13 \times 3=39 \rightarrow 18 \div 3=6 \rightarrow 39+6-7 = \mathbf{38}$
2. $(12-8)=4 \rightarrow 36 \div 4=9 \rightarrow (5 \times 7)=35 \rightarrow 9+35=44 \rightarrow 44-9 = \mathbf{35}$
3. $(24-6)=18 \rightarrow (9-6)=3 \rightarrow 18 \div 3=6 \rightarrow 8 \times 3=24 \rightarrow 6+24-10 = \mathbf{20}$
4. $(14-9)=5 \rightarrow 28 \div 4=7 \rightarrow 5 \times 5=25 \rightarrow 25+7=32 \rightarrow 32-6 = \mathbf{26}$
5. $(7-3)=4 \rightarrow 48 \div 4=12 \rightarrow (6+5)=11 \rightarrow 11 \times 2=22 \rightarrow 12+22-8 = \mathbf{26}$

B) Missing Factor

6. $(6-2)=4 \rightarrow 12 \div 3=4 \rightarrow (+4) \times 4+4-5=\mathbf{27} \rightarrow (+4) \times 4-1=27 \rightarrow \underline{\hspace{1cm}} = \mathbf{3}$
7. $(3 \times 4)=12 \rightarrow 40 \div (+2)+12-7=\mathbf{13} \rightarrow 40 \div (+2)+5=13 \rightarrow 40 \div (\underline{\hspace{1cm}}+2)=8 \rightarrow \underline{\hspace{1cm}} = \mathbf{3}$
8. $(8-4)=4 \rightarrow 6 \times 2=12 \rightarrow (20-)\div 4+12-3=\mathbf{14} \rightarrow (20-)\div 4=5 \rightarrow \underline{\hspace{1cm}} = \mathbf{0}$
9. $18 \div 3=6 \rightarrow 5 \times (2+\underline{\hspace{1cm}})+6-9=37 \rightarrow 5 \times (2+\underline{\hspace{1cm}})-3=37 \rightarrow 5 \times (2+\underline{\hspace{1cm}})=40 \rightarrow \underline{\hspace{1cm}} = \mathbf{6}$
10. $15-6=9 \rightarrow 8 \div 2=4 \rightarrow 9 \times (+2)+4-4=\mathbf{45} \rightarrow 9 \times (+2)=45 \rightarrow \underline{\hspace{1cm}} = \mathbf{3}$

C) Multiple Choice

11. $(11-5)=6 \rightarrow (9-6)=3 \rightarrow 6 \times 3=18 \rightarrow 16 \div 4=4 \rightarrow 18+4-3 = \mathbf{19} \rightarrow \mathbf{C}$
12. $(15-12)=3 \rightarrow 27 \div 3=9 \rightarrow 8 \times 2=16 \rightarrow 9+16=25 \rightarrow 25-9 = \mathbf{16} \rightarrow \mathbf{C}$
13. $28 \div 7=4 \rightarrow (5+9)=14 \rightarrow 14 \times 2=28 \rightarrow 4+28=32 \rightarrow 32-6 = \mathbf{26} \rightarrow \mathbf{B}$
14. $(10-7)=3 \rightarrow 6 \times 3=18 \rightarrow 18 \div 3=6 \rightarrow 18+6=24 \rightarrow 24-8 = \mathbf{16} \rightarrow \mathbf{B}$
15. $32 \div 8=4 \rightarrow (7-4)=3 \rightarrow 3 \times 5=15 \rightarrow 4+15=19 \rightarrow 19-2 = \mathbf{17} \rightarrow \mathbf{A}$