

Final Review Test (5-Step Order of Operations) Answer Key**Part A**

1. $(12-5)=7 \rightarrow (9-6)=3 \rightarrow 7 \times 3=21 \rightarrow 20 \div 4=5 \rightarrow 21+5-7 = \mathbf{19}$
2. $(18-12)=6 \rightarrow 36 \div 6=6 \rightarrow 7 \times 3=21 \rightarrow 6+21=27 \rightarrow 27-8 = \mathbf{19}$
3. $30 \div 5=6 \rightarrow (10-7)=3 \rightarrow 6 \times 3=18 \rightarrow 18+6=24 \rightarrow 24-4 = \mathbf{20}$

Part B

4. $(5-2)=3 \rightarrow 12 \div 2=6 \rightarrow (+6) \times 3+6-4=\mathbf{35} \rightarrow (+6) \times 3+2=35 \rightarrow \underline{\hspace{1cm}} = \mathbf{5}$
5. $(8-4)=4 \rightarrow 7 \times 2=14 \rightarrow (24-)\div 4+\mathbf{14-5=14} \rightarrow (\mathbf{24-})\div 4=5 \rightarrow \underline{\hspace{1cm}} = \mathbf{4}$
6. $(6 \times 2)=12 \rightarrow 40 \div (-\mathbf{2})+\mathbf{12-7=15} \rightarrow \mathbf{40} \div (-2)+5=15 \rightarrow 40 \div (\underline{\hspace{1cm}}-2)=10 \rightarrow \underline{\hspace{1cm}} = \mathbf{6}$

Part C

7. $(8+4)=12 \rightarrow (6-3)=3 \rightarrow 12 \times 3=36 \rightarrow 15 \div 5=3 \rightarrow 36+3-14 = \mathbf{25} \rightarrow \mathbf{B}$
8. $18 \div 6=3 \rightarrow (9-4)=5 \rightarrow 5 \times 5=25 \rightarrow 3+25=28 \rightarrow 28-5 = \mathbf{23} \rightarrow \mathbf{C}$
9. $(20-15)=5 \rightarrow 60 \div 5=12 \rightarrow 5 \times 3=15 \rightarrow 12+15=27 \rightarrow 27-4 = \mathbf{23} \rightarrow \mathbf{D}$

Part D

10. **Expression:** $6 \times (10-2) + (2 \times 6) - 86 \times (10-2) + (2 \times 6) - 8$
Steps: $(10-2)=8 \rightarrow 6 \times 8=48 \rightarrow 2 \times 6=12 \rightarrow 48+12=60 \rightarrow 60-8 = \mathbf{52}$
Answer: 52