

Name: Key

1.2 ORDER OF OPERATIONS (DAY 1) HOMEWORK

1) $20 - 5 + 6$

$$\begin{array}{r} 15 + 6 \\ \hline 21 \end{array}$$

2) $20 + 5 - 6$

$$\begin{array}{r} 25 - 6 \\ \hline 19 \end{array}$$

3) $32 \div 4 \cdot 2$

$$\begin{array}{r} 8 \cdot 2 \\ \hline 16 \end{array}$$

4) $32 \div 4 \div 2$

$$\begin{array}{r} 8 \div 2 \\ \hline 4 \end{array}$$

5) $\frac{22 - 8 \cdot 2}{5^2 - 23}$

$$\begin{array}{r} 22 - 16 \\ \hline 25 - 23 \end{array}$$

$$\begin{array}{r} 6 \\ 2 \\ \hline 3 \end{array}$$

6) $3 + 8 \cdot 3 - 5 + 6$

$$3 + 24 - 5 + 6$$

$$27 - 5 + 6$$

$$22 + 6$$

$$28$$

7) $10 - 3^2 + 24 \div 6$

$$10 - 9 + 4$$

$$\begin{array}{r} 1 + 4 \\ \hline 5 \end{array}$$

8) $5^2 - 3 + 21 - 5 \cdot 3$

$$25 - 3 + 21 - 15$$

$$22 + 21 - 15$$

$$43 - 15$$

$$28$$

9) $\frac{20 - 4^2 + 2 \cdot 3}{60 \div 2 \div 2}$

$$\begin{array}{r} 20 - 16 + 6 \\ \hline 30 \div 2 \end{array}$$

$$\begin{array}{r} 4 + 6 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 16 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 2 \\ 3 \end{array}$$

10) $3^2 \cdot 2^3 - 7 \cdot 10$

$$9 \cdot 8 - 70$$

$$72 - 70$$

$$2$$

11) $10 - 15 \cdot 3 + 9$

$$10 - 45 + 9$$

$$-35 + 9$$

$$-26$$

12) $10 \cdot 15 - 3 \cdot 9$

$$150 - 27$$

$$123$$

13) $\frac{10^2 \div 5 - 3}{18 - 12 + 1}$

$$\begin{array}{r} 100 \div 5 - 3 \\ \hline 6 + 1 \end{array}$$

$$20 - 3$$

$$17$$

$$7$$

$$\begin{array}{r} 17 \\ 7 \end{array}$$

14) $4 \cdot 12 - 8 + 3 - 21 \div 3$

$$48 - 8 + 3 - 7$$

$$40 + 3 - 7$$

$$43 - 7$$

$$36$$

15) $1^5 + 2^4 - 3^3 + 4^2$

$$1 + 16 - 27 + 16$$

$$17 - 27 + 16$$

$$-10 + 16$$

$$6$$

1.2 ORDER OF OPERATIONS (DAY 2) HOMEWORK

1) $12 \div 4 + 3^2$

$$\begin{array}{l} 3 + 9 \\ \hline 12 \end{array}$$

4) $10 + 3(2 + 6)$

$$\begin{array}{l} 10 + 3(8) \\ 10 + 24 \\ \hline 34 \end{array}$$

7) $20 - (4)(2) + 3$

$$\begin{array}{l} 20 - 8 + 3 \\ 12 + 3 \\ \hline 15 \end{array}$$

10) $50 - 2(8 - 3)^2$

$$\begin{array}{l} 50 - 2(4)^2 \\ 50 - 2(16) \\ 50 - 32 \\ \hline 18 \end{array}$$

13) $[2(9 - 5) + 1] \cdot 3^2$

$$\begin{array}{l} [2(4) + 1] \cdot 9 \\ \hline (8 + 1) \cdot 9 \\ \hline 81 \end{array}$$

16) $-3^2 + 14 - 2(5)$

$$\begin{array}{l} -9 + 14 - 10 \\ 5 - 10 \\ \hline -5 \end{array}$$

2) $(4^2 + 5) - 3$

$$\begin{array}{l} (16 + 5) - 3 \\ \hline 21 - 3 \\ \hline 18 \end{array}$$

5) $\frac{1}{2}\sqrt{16} + 5$

$$\begin{array}{l} \frac{1}{2}(4) + 5 \\ 2 + 5 \\ \hline 7 \end{array}$$

8) $2 + 3[5 + (4 - 1)^2]$

$$\begin{array}{l} 2 + 3[5 + (3)^2] \\ \hline 2 + 3(5 + 9) \\ \hline 2 + 3(14) \\ \hline 2 + 42 \\ \hline 44 \end{array}$$

11) $100 - 10(2 + 3) + 4$

$$\begin{array}{l} 100 - 10(5) + 4 \\ 100 - 50 + 4 \\ 50 + 4 \\ \hline 54 \end{array}$$

14) $\frac{40 - 8}{27 - 5^2 + 2}$

$$\begin{array}{l} \frac{32}{27 - 25 + 2} \\ \hline \frac{32}{4} \\ \hline 8 \end{array}$$

17) $\frac{24 - (-2)^2}{-8 + 3}$

$$\begin{array}{l} \frac{24 - 4}{-8 + 3} \\ \hline \frac{20}{-5} \\ \hline -4 \end{array}$$

3) $20 \div (12 - 2) \cdot 3^2 - 2$

$$\begin{array}{l} 20 \div (10) \cdot 3^2 - 2 \\ 2 \cdot 9 - 2 \\ 18 - 2 \\ \hline 16 \end{array}$$

6) $(2)(9)^2 - 3(6 - 1) + 1$

$$\begin{array}{l} 2(81) - 3(5) + 1 \\ 162 - 15 + 1 \\ 147 + 1 \\ \hline 148 \end{array}$$

9) $\frac{15 - 8}{2 \cdot 3 + 1}$

$$\begin{array}{l} \frac{7}{6 + 1} \\ \hline 1 \end{array}$$

12) $\sqrt[3]{45 - 18} + 2^3$

$$\begin{array}{l} \sqrt[3]{27} + 8 \\ 3 + 8 \\ \hline 11 \end{array}$$

15) $35 - 8 \cdot 3 + \sqrt{12 - 3}$

$$\begin{array}{l} 35 - 24 + \sqrt{9} \\ 35 - 24 + 3 \\ 11 + 3 \\ \hline 14 \end{array}$$

18) $(\sqrt{9})^2 - 4 \div 2$

$$\begin{array}{l} (3)^2 - 2 \\ 9 - 2 \\ \hline 7 \end{array}$$