

**ORDER OF OPERATIONS  
WORKSHEET # 1**

**NAME:** \_\_\_\_\_ **DATE:** \_\_\_\_\_



**REVIEW:** \_\_\_\_\_

Classify the following numbers:

1. 4, \_\_\_\_\_
2. 3.2, \_\_\_\_\_
3.  $\frac{1}{3}$ , \_\_\_\_\_
4.  $\sqrt{5}$ , \_\_\_\_\_
5.  $0.\overline{66}$ , \_\_\_\_\_

Simplify the following:

6.  $\sqrt[3]{225}$  \_\_\_\_\_
7.  $8^2$  \_\_\_\_\_
8.  $\sqrt{25}$  \_\_\_\_\_
9.  $3^3$  \_\_\_\_\_
10.  $\sqrt[3]{729}$  \_\_\_\_\_
11.  $\left(\frac{2}{3}\right)^2$  \_\_\_\_\_
12.  $\sqrt{196}$  \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

**PART 1:**

**Complete the following questions in your books showing all work.**

1.  $3\frac{1}{2} \div \left(2\frac{1}{8} - \frac{3}{4}\right)$
2.  $3\frac{1}{4} + 5\frac{1}{2} \div \frac{3}{8}$
3.  $6 \times 4 - 12 \div 3 - 8$

4.  $20 - (3 \times 2^3 - 5)$

5.  $(5 + 2)^2 - 9 \times 3 + 2^3$

6.  $(12 \div 3 + 4) - (4^2 - 6 \times 2)$

7.  $(7 - \sqrt{9}) \times (4^2 - 3 + 1)$

8.  $\frac{2^4 + (16 - 3 \times 4)}{(6 + 3^2) \div (7 - 4)}$

9. Evaluate:

(a)  $4\frac{4}{5} + 8\frac{4}{15} + 1\frac{2}{3}$

(b)  $3\frac{1}{5} \times 1\frac{1}{8} \times 2\frac{1}{2}$

10. Calculate:

(a)  $8\frac{7}{9} + 5\frac{1}{3} + 4\frac{7}{8}$

(b)  $7\frac{1}{3} - 2\frac{4}{5} + 1\frac{7}{15}$

11. Determine:

(a)  $7 \times \left(2\frac{1}{3} + 1\frac{1}{2}\right)$

(b)  $2\frac{1}{4} \times 1\frac{1}{2} \times \frac{2}{3}$

12. Simplify the following:

(a)  $\frac{6\frac{1}{2}}{9\frac{1}{2} - 5\frac{1}{4}}$

(b)  $\frac{5\frac{4}{9} - 3\frac{2}{9}}{4\frac{1}{4} + 1\frac{2}{3}}$

13. Find the exact value of:

(a)  $4\frac{3}{5} + 2\frac{1}{3} - 3\frac{1}{2}$

(b)  $\frac{8\frac{1}{3} \times 3\frac{3}{5}}{1\frac{1}{2} \times 2\frac{2}{3}}$

14. Simplify the following:

(a)  $3\frac{4}{9} + \left(1\frac{5}{36} \times 3\frac{3}{5}\right)$

(b)  $8\frac{1}{3} \div \left(4\frac{1}{2} - 1\frac{1}{4}\right)$

15. Evaluate the following:

(a)  $\frac{2\frac{1}{5} + 1\frac{2}{3}}{1\frac{1}{10} - \frac{2}{5}}$

(b)  $\frac{\frac{3}{5} - \frac{7}{10}}{1 - \frac{3}{7} \times \frac{2}{5}}$

16. Determine the exact value of:

(a)  $5\frac{3}{4} - 3\frac{1}{8}$

(b)  $5\frac{2}{3} - 2\frac{1}{4}$

17. Calculate the exact value of:

(a)  $\frac{6\frac{3}{8} + 3\frac{5}{8}}{5 - 3\frac{4}{7}}$

(b)  $\left(5\frac{3}{7} - 3\frac{5}{14}\right) \div 2\frac{3}{14}$

THE END

