

## Math 9 Lesson 1: BEDMAS Operations

- Operations with rational numbers  
(addition, subtraction, multiplication, division, and order of operations)

1.  $\frac{2}{3} + \frac{1}{2}$

2.  $3 + \frac{3}{4}$

3.  $3\frac{2}{3}$  is a mixed fraction. Write this fraction in the form  $\frac{a}{b}$

4.  $1.2 \times 3.4$

5.  $\frac{2}{3} \times \frac{4}{7}$

6.  $2 \times \frac{3}{4}$

7.  $\frac{3}{5} \div \frac{4}{5}$

8.  $2 \div \frac{3}{5}$

9.  $3 + 2 \times 4 - 6$

10.  $0 \div 2$

11.  $\frac{12}{2 \times 3}$

12.  $3^2 + 5(1 - 2)^3$

13.  $123 \times 456$

14.  $32.4 \times 1.27$

15.  $-3^2$

16.  $-(-4)^2$

17.  $(-1)^{101}$

18.  $-3(-2)$

19.  $3\frac{2}{3} + \frac{4}{5} - 1$

20.  $\frac{2/3}{3/4}$

21.  $6 \div 2(1 + 2)$

22.  $\left(\frac{3}{2}\right)^2$

23.  $\sqrt{\frac{9}{64}}$

24.  $-2\left(3 - \frac{2}{3}\right)$

25.  $\sqrt{400}$

26.  $\sqrt{-25}$

27.  $\sqrt{4} + \sqrt[3]{-8}$

28. Express  $\frac{1230481}{3}$

a. As a mixed fraction

b. As a decimal number

c. As a percent

29. Express  $\frac{205713}{12}$  as a decimal number.

30. Simplify as a fraction:  $0.\bar{3} + (5 - 1.\bar{6})$

31. Round 23578 to the nearest thousand

32. Simplify  $\frac{12.4}{0.06}$  in the form  $\frac{a}{b}$

33. Simplify  $\frac{8\div 2}{\frac{4}{3}}$

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

35.  $(-2^3)^2 - (-1)^{130} \div \left(\frac{2}{3}\right)$

36.  $3(1 - 5) - \frac{(-3)^2}{-2^2}(2 - (5 - 6))$

37. What is  $\frac{1}{2}\%$  of a billion?

38. Challenge:

a.  $0 \div 0$

b.  $\infty - \infty$

c. Convert  $0.\overline{7}$  to a fraction

d. Convert  $2.0\overline{13}$  to a fraction