

A. Use BEDMAS to evaluate each expression. Write your answers in LOWEST terms.

1. $\frac{3}{4} \times \frac{5}{6} + \frac{1}{2}$
2. $\frac{2}{3} \times \left(\frac{1}{5} \div \frac{2}{5} \right)$
3. $3 - \frac{5}{6} \div \frac{1}{3}$
4. $\frac{1}{2} - \frac{1}{3} \times \frac{12}{5}$
5. $\frac{9}{10} \times 20 \div \frac{1}{3}$
6. $\frac{-2}{3} \times \frac{1}{2} \div (-2)$
7. $\frac{3}{2} \div \left(-\frac{1}{6} \right) \times \frac{1}{3}$
8. $\frac{2}{3} \times \frac{5}{8} + \frac{2}{3} \times \left(-\frac{1}{8} \right)$
9. $\frac{9}{8} + \left(-\frac{1}{4} \right) \times 3$
10. $\left(\frac{1}{2} + \frac{1}{3} \right) \div \left(\frac{1}{4} \div \frac{1}{3} \right)$
11. $\left(-\frac{4}{7} \right) \div \left(-\frac{12}{7} \right) - \frac{1}{3}$
12. $4\frac{1}{2} \times \left(-\frac{2}{3} \right) + \frac{7}{8}$
13. $\frac{4}{9} + \frac{-3}{4} \times \frac{2}{9} \div \frac{3}{5}$
14. $\frac{1}{3} \times \frac{5}{8} + \frac{1}{4} \times \left(-\frac{1}{2} \right)$

B. Use BEDMAS to evaluate each expression. Write your answers in LOWEST terms.

1. $\frac{3}{-4} \times \left(-\frac{2}{5} \right)$
2. $\frac{-2}{5} \div \frac{3}{10}$
3. $1\frac{1}{4} \div (-3)$
4. $1\frac{1}{3} \times 2\frac{1}{4}$
5. $\frac{1}{2} - 3\left(\frac{1}{3} + 2 \right)$
6. $\frac{3}{4} + \left(\frac{2}{3} \right)^2 \times \frac{1}{2}$
7. $\frac{\frac{1}{3} + \frac{2}{5}}{\frac{3}{5}}$
8. $\frac{\frac{2}{3} \times \frac{1}{2}}{\frac{5}{2} - \frac{4}{3}}$

C. Use your knowledge of Integers and Fractions to solve these problems. Show all your work.

1. The temperature at 6:00 p.m. in a research station in Antarctica was -37°C . If the temperature dropped $8\frac{1}{2}^{\circ}\text{C}$ in the next hour, what was the temperature at 7:00 p.m.?
2. Judy had a bank balance of \$867 at the beginning of January. If she wrote cheques for \$98, \$456, \$29, and \$381. What was his balance after the cheques cashed?
3. Joe gained 986 yards during football season. Harrod lost 118 yards during the season. What is the difference between their yardage gains?
4. The net profit for 4 months is \$34 500, \$15 600, \$-5 800, and \$-20 000. What was the net profit for the 4-month period?
5. A submarine was cruising at -132 metres. It then climbed to $-64\frac{1}{2}$ metres. What was the difference between its original altitude and its new altitude?
6. An elevator traveled in this way: up 18 floors, down 6 floors, down 14 floors, up 19 floors, down 25 floors. What was the net change in position of the elevator?
7. Astronauts boarded their spacecraft $4\frac{1}{2}$ hours before launch. They ate lunch $2\frac{1}{3}$ hours after launch. How many hours passed between boarding time and lunch time?
8. A football team made the following gains on four plays: 9 yards, -11 yards, $-2\frac{2}{3}$ yards, $6\frac{1}{3}$ yards. What was the net change in position after the four plays?
9. On Monday the temperature was -19°C . On Tuesday, it rose $26\frac{1}{2}^{\circ}\text{C}$. On Wednesday, it dropped $33\frac{1}{2}^{\circ}\text{C}$. What was the temperature on Wednesday?
10. During one week, the stock of a company had the following daily changes: up 4 points, down 6 points, up $3\frac{1}{2}$, up $1\frac{1}{4}$ and down $\frac{5}{8}$ of a point. What was the net change in price of the stock for the week?

ANSWERS:

A: 1) $\frac{9}{8}$ 2) $\frac{1}{3}$ 3) $\frac{1}{2}$ 4) $\frac{-3}{10}$ 5) 54 6) $\frac{1}{6}$ 7) -3 8) $\frac{1}{3}$ 9) $\frac{3}{8}$ 10) $\frac{10}{9}$ 11) 0 12) $\frac{-17}{8}$ 13) $\frac{1}{6}$ 14) $\frac{1}{12}$

B: 1) $\frac{3}{10}$ 2) $\frac{-4}{3}$ 3) $\frac{-5}{12}$ 4) 3 5) $\frac{-13}{2}$ 6) $\frac{35}{26}$ 7) $\frac{11}{9}$ 8) $\frac{2}{7}$

C: 1) $-45\frac{1}{2}$ 2) -97 3) 1104 4) 24 300 5) $67\frac{1}{2}$ 6) down 8 floors 7) $6\frac{5}{6}$ h 8) $1\frac{2}{3}$ yd 9) -26 10) $2\frac{1}{8}$