

Lesson 8: Practice Problems

1. Evaluate each expression:

a. $-12 \cdot \frac{1}{3}$

b. $-12 \cdot (-\frac{1}{3})$

c. $12 \cdot (-\frac{3}{4})$

d. $-12 \cdot (-\frac{3}{4})$

2. Evaluate each expression:

a. $(-1) \cdot 2 \cdot 3$

b. $(-1) \cdot (-2) \cdot 3$

c. $(-1) \cdot (-2) \cdot (-3)$

3. Order each set of numbers from least to greatest.

a. 4, 8, -2, -6, 0

b. -5, -5.2, 5.5, $-5\frac{1}{2}$, $\frac{-5}{2}$

4. $30 + -30 = 0$.

a. Write another sum of two numbers that equals 0.

b. Write a sum of three numbers that equals 0.

c. Write a sum of four numbers that equals 0, none of which are opposites.

5. A submarine is searching for underwater features. It is accompanied by a small aircraft and an underwater robotic vehicle. At one time the aircraft is 200 m above the surface, the submarine is 55 m below the surface, and the underwater robotic vehicle is 227 m below the surface.
- What is the difference in height between the submarine and the aircraft?
 - What is the distance between the underwater robotic vehicle and the submarine?
- 6.
- Clare is cycling at a speed of 12 miles per hour. If she starts at a position chosen as zero, what will her position be after 45 minutes?
 - Han is cycling at a speed of -8 miles per hour; if he starts at the same zero point, what will his position be after 45 minutes?
 - What will the distance between them be after 45 minutes?
7. Fill in the missing numbers in these equations
- $(-7) \cdot ? = -14$
 - $? \cdot 3 = -15$
 - $? \cdot 4 = 32$
 - $-49 \cdot 3 = ?$