Practice Mastery Quiz 1-5/1-6 NO CALCULATOR

Show all your work clearly!

1. Find each sum.

a.
$$-5+(-3) = \boxed{-8}$$

b.
$$-16+12 = \boxed{-4}$$

Name:

2. Find each difference.

a.
$$7-(-5) = 7+5 = 12$$

b.
$$-2-(5) = \sqrt{-7}$$

3. Evaluate -2a - 5b - c for a = -1, b = 2 and c = -3

$$-2(-1)-1(2)-(-1)$$
= 2-10+3
= -8+3 = [-5]

4. What is the value of $\frac{a}{b}$ when $a = -\frac{2}{3}$ and $b = \frac{4}{5}$?

$$\frac{-\frac{2}{3}}{4} = -\frac{2}{3} \cdot \frac{5}{4} = -\frac{10}{12} = \left[-\frac{5}{5} \right]$$

5. Find each product or quotient.

a.
$$\frac{2}{9} \div \frac{4}{3}$$

$$\frac{2}{9} \cdot \frac{3}{4} = \frac{6}{36} = \boxed{\frac{1}{6}}$$

$$\frac{2}{9} \div \frac{4}{3}$$

$$\frac{2}{9} \cdot \frac{3}{4} = \frac{6}{36} = \boxed{\frac{1}{6}}$$

$$-\frac{5}{12} \cdot \frac{6}{10} = -\frac{30}{120}$$

$$= \boxed{-\frac{1}{4}}$$

b.
$$\left(-\frac{5}{12}\right) \div \left(\frac{10}{6}\right)$$
 c. $\frac{3}{4}\left(2\frac{1}{3}\right) = \frac{3}{4} \cdot \frac{7}{3} = \frac{21}{12}$

$$-\frac{5}{12} \cdot \frac{6}{10} = -\frac{30}{120}$$

$$= \boxed{\frac{7}{4}}$$

6. A miner starts 50 feet below the ground. Then he went 20 feet lower, came back up 35 feet, and then back down 5 more. What integer describes his depth?

$$= -32-2$$

$$= -32-2$$

$$= -32-2$$

$$= -32-2$$