Topic: Rational Number

Worksheet No. : 3

1. Find four rational numbers between $\frac{1}{6}$ and $\frac{1}{3}$.

(A) $\frac{-1}{4}, \frac{7}{24}, \frac{13}{48}, \frac{-27}{96}$

(B) $\frac{1}{4}, \frac{-7}{24}, \frac{13}{48}, \frac{27}{96}$

(C) $\frac{1}{4}, \frac{7}{24}, \frac{-13}{48}, \frac{27}{96}$

(D) $\frac{1}{4}, \frac{7}{24}, \frac{13}{48}, \frac{27}{96}$

2. Which of the following numbers must be added to $\frac{-5}{16}$ to get $\frac{7}{24}$?

(A) $\frac{21}{28}$ (B) $\frac{-29}{48}$ (C) $\frac{15}{48}$ (D) $\frac{29}{48}$

3. Which of the following numbers must be subtracted from $\frac{7}{-8}$ to get $\frac{-13}{12}$?

(A) $\frac{5}{24}$ (B) $\frac{9}{24}$ (C) $\frac{-7}{24}$ (D) $\frac{-5}{24}$

4. What is the resultant obtained when the additive inverse of $\frac{5}{6}$ is subtracted from the multiplicative inverse of $\frac{-5}{7} \times \frac{14}{15}$?

(A) $\frac{3}{2}$ (B) $\frac{-2}{3}$ (C) $\frac{-3}{2}$ (D) $\frac{2}{3}$

5. Which of the following are three rational numbers between - 2 and - 1?

(A) $\frac{-1}{2}, \frac{-1}{3}, \frac{-1}{5}$

(B) $\frac{-3}{2}, \frac{-7}{4}, \frac{-5}{4}$

(C) $\frac{-12}{5}, \frac{-22}{5}, \frac{-12}{5}$

(D) $\frac{3}{2}, \frac{7}{4}, \frac{5}{4}$

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6. What is the simplified form of $\left(\frac{-9}{7} \times \frac{-1}{3}\right) + \left(\frac{15}{8} \times \frac{-4}{5}\right) - \left(\frac{27}{14} \times \frac{2}{9}\right)$?

(A) $\frac{3}{2}$ (B) $\frac{-3}{7}$ (C) $\frac{-3}{2}$ (D) $\frac{3}{7}$

7. The product of two numbers is $\frac{5}{9}$. If one of the numbers is $\frac{-35}{24}$, find the other.

(A) $\frac{8}{7}$ (B) $\frac{-8}{21}$ (C) $\frac{-3}{7}$ (D) $\frac{8}{21}$

8. The area of a rectangle is $45\frac{5}{16} cm^2$. If one edge is $6\frac{1}{4} cm$, find the other in cm.

(A) $7\frac{1}{8}$ (B) $\frac{7}{4}$ (C) $7\frac{1}{7}$ (D) $4\frac{1}{7}$

9. Evaluate: $\left(\frac{\frac{1}{6} - \frac{17}{18}}{\frac{5}{7}}\right)$

(A) $\frac{49}{45}$ (B) $-1\frac{4}{45}$ (C) $\frac{45}{49}$ (D) $1\frac{4}{45}$

10. What is the multiplicative inverse of 0?

(A) $\frac{1}{0}$ (B) 0

(C) Does not exist (D) $\frac{0}{0}$

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ANSWERS

1. D
2. D
3. A
4. C
5. B
6. C
7. B
8. A
9. B
10. C