

5. Find the value of

(a) $\frac{3}{4} \div \frac{-6}{7}$

(b) $\frac{-19}{13} \div \left(\frac{-38}{39} \right)$

6. Express 16^3 as a power with base 2.

7. Convert each of the following recurring decimals into fractions.

(a) $0.\overline{733}$

(b) $0.47\overline{123}$

8. Shyam and Sheena collect coins. Shyam says he has coins from 75 countries out of 99 Countries he wanted to collect. Sheena says, I have only half of what you have. Calculate the number of countries from which Sheena has collected coins.

9. Solve: $\frac{3^{-7} \times 14^{-7} \times 343}{7^{-9} \times 6^{-7}}$

10. If $\frac{3}{4}$ of a box of apples weighs 3 kg and 225 gm, how much does a full box of apples weigh?

IV. Answer the following: (any 2)

$2 \times 5 = 10$

1. Ria was helping her mother fill up water in a large tub. First she poured $3\frac{1}{3}$ buckets of water and then another $2\frac{1}{4}$ buckets of water. If the capacity of the bucket is 5 litres, how many litres of water did Ria pour?

2. Solve:

(a) $\left[\left\{ \left(\frac{-2}{3} \right)^3 \right\}^{-2} \right]^{-1}$

(b) $\left(\frac{2}{5} \right)^{-3}$

3. If $p + 2q = 18$ and $pq = 40$, find $\frac{2}{p} + \frac{1}{q}$.

4. Find 'x' if $5\frac{x}{5} \times 3\frac{3}{4} = 21$.

V. Represent the following numbers on the number line. Represent each number on different number line.

$5 \times 2 = 10$

(a) $-\frac{5}{3}$

b) 0.25

c) $\frac{4}{7}$

d) $-\frac{3}{5}$

e) -0.6