



Brain International School

Vikas Puri, New Delhi

ASSIGNMENT NO. 6

SUBJECT: MATHS

CLASS-VI

NOVEMBER, 2025

FRACTIONS

Q1. Represent $\frac{2}{8}$, $\frac{3}{4}$, $\frac{3}{2}$ on a number line.

Q2. $\frac{35}{9}$ can be written _____ in mixed fraction.

a) $3\frac{4}{9}$

b) $1\frac{5}{9}$

c) $3\frac{8}{9}$

d) $2\frac{6}{9}$

Q3. Write all the natural numbers from 1 to 15. What fraction of them are prime numbers?

Q4. Find the sum of: $\frac{3}{4}$ and $\frac{2}{5}$.

Q5. Compare the following fractions: $\frac{4}{5}$ and $\frac{5}{6}$.

Q6. Observe the following fractions:

$$3\frac{3}{5}, 2\frac{4}{7}, \frac{19}{6}, \frac{18}{8}$$

a) Write the Greatest and the Smallest Fractions.

b) Find the difference of the Greatest and the Smallest fraction.

Q7. Swara painted $\frac{2}{3}$ of the wall space in her room. Her brother Rahul helped and painted $\frac{1}{5}$ of the wall space.

a) How much did they paint together?

b) What part of the whole space is left unpainted?

Q8. Identify whether each pair of fractions is equivalent or not. Justify your answer.

a) $\frac{4}{5}$ and $\frac{12}{15}$

b) $\frac{7}{8}$ and $\frac{11}{14}$

Q9. Write the following fractions in their simplest form:

(a) $\frac{32}{56}$

(b) $\frac{45}{125}$

(c) $\frac{66}{94}$

ASSERTION-REASONING BASED QUESTIONS

1. Assertion: $\frac{21}{84}$ and $\frac{12}{56}$ are equivalent fractions.

Reason: Two fractions $\frac{a}{b}$ and $\frac{c}{d}$, ($b, d \neq 0$) are equivalent if their simplest form is the same.

2. Assertion: $\frac{5}{8}$ is an improper fraction.

Reason: In improper fractions, the numerator is greater than the denominator.

3. Assertion: $\frac{7}{9}$ is the reciprocal of $\frac{9}{7}$.

Reason: $\frac{7}{9} \times \frac{9}{7} = 1$

(a) Both Assertion and Reason are correct and Reason is the correct explanation of Assertion.

(b) Both Assertion and Reason are correct, but Reason is not the correct explanation of Assertion.

(c) Assertion is correct but Reason is incorrect.

(d) Assertion is incorrect but Reason is correct.



ASSIGNMENT NO. 7

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PLAYING WITH CONSTRUCTIONS

- Q1. Take a central line of length 10cm and draw the wave on it.
- Q2. Construct a rectangle with 6cm and 3cm sides. After drawing, check if it satisfies both the rectangle properties.
- Q3. Construct a square ABCD with a side length of 7cm.
- Q4. Construct a rectangle of sides 10 cm and 5 cm. How will you construct a square inside, as shown in the figure, such that the centre of the square is the same as the centre of the rectangle?
- Q5. The following figure shows falling squares. Construct the given figure using ruler and compass.

