



INDIAN SCHOOL AL WADI AL KABIR

Class VI, Mathematics (2023-24)

Worksheet DTQ -FRACTIONS

SHORT ANSWER TYPE QUESTIONS- 7 QUESTIONS. (2 Marks each)

Q1.	Express the following mixed fractions as improper fractions: a) $6\frac{1}{5}$ b) $3\frac{2}{3}$
Q2.	Express as fractions in the lowest form: a) 3 days as fraction of 1 week. b) 20 seconds as a fraction of 1 minute. c) 8 hours as a fraction of one day.
Q3.	Write the natural numbers from 11 to 22. What fraction of them are prime numbers?
Q4.	Write the following fractions in simplest form: a) $\frac{150}{800}$ b) $\frac{14}{196}$
Q5.	Which of the following pairs of fractions are equivalent? a) $\frac{12}{20}$, $\frac{28}{35}$ b) $\frac{8}{24}$, $\frac{40}{120}$
Q6.	a) Write the equivalent fraction of $\frac{7}{8}$ with Denominator 32. b) Write the equivalent fraction of $\frac{64}{84}$ with numerator 16.
Q7.	Express the following as mixed fractions: a) $\frac{28}{5}$ b) $\frac{7}{2}$

SHORT ANSWER TYPE- 5 QUESTIONS. (3 Marks each)

Q8.	Draw a number line and locate the following fractions on it: $\frac{3}{7}$, $\frac{2}{7}$, $1, \frac{4}{7}$, 0
Q9.	Jim takes $5\frac{1}{5}$ minutes while Tim takes $5\frac{2}{3}$ minutes to reach the school from their home? Who takes less time and by how much?
Q10.	A box of chocolates fell on the floor. Ben picked up $\frac{2}{5}$ of the chocolates and John picked up $\frac{3}{4}$. How much chocolates did they pick up altogether?
Q11.	Karen studied English for $1\frac{3}{4}$ hours and Mathematics for $2\frac{1}{4}$ hours. How much time did she spend on both the subjects?
Q12.	Arrange the following fractions in ascending order (show working): $\frac{3}{4}$, $\frac{5}{2}$, $\frac{2}{5}$

LONG ANSWER TYPE- 3 QUESTIONS. (4 Marks each)

Q.13	Shyama, Gaurav and Raghavan are best friends. They started painting a wall. Shyama paints $\frac{2}{3}$ of the wall, Gaurav paints $\frac{1}{4}$ of the wall and Raghavan paints $\frac{3}{10}$ of the wall. a) Who painted maximum portion of the wall? b) Who painted least portion of the wall? c) What portion of the wall they painted together?
Q14.	Simplify: a) $8\frac{1}{2} + 3\frac{1}{3}$ b) $7\frac{1}{4} - 2\frac{2}{9}$
Q15.	My elder sister divided the watermelon into 16 parts. I ate 7 out them. My friend ate 4. How much did we eat between us? How much more of the watermelon did I eat than my friend? What portion of the watermelon remained?

ANSWERS

1.	a) $\frac{31}{5}$ b) $\frac{11}{3}$	2.	a) $\frac{3}{7}$ b) $\frac{20}{60} = \frac{1}{3}$ c) $\frac{8}{24} = \frac{1}{3}$	3.	a) $\frac{4}{12} = \frac{1}{3}$	4.	a) $\frac{3}{16}$ b) $\frac{1}{14}$
5.	a) No b) yes	6.	a) $\frac{28}{32}$ b) $\frac{16}{21}$	7.	a) $5\frac{3}{5}$ b) $3\frac{1}{2}$	8.	
9.	Tim by $\frac{7}{15}$	10.	$1\frac{3}{20}$	11.	4 hours	12.	$\frac{2}{5}, \frac{3}{4}, \frac{5}{2}$
13.	a) Shyama b) Gaurav c) $1\frac{13}{60}$	14.	a) $11\frac{5}{6}$ b) $5\frac{1}{36}$	15.	1) $\frac{11}{16}$, 2) $\frac{3}{16}$, 3) $\frac{5}{16}$		