



INDIAN SCHOOL AL WADI AL KABIR

Class VII, Mathematics (2024-25)

Worksheet DTQ – FRACTIONS

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

- Q1.** Find the product of $14\frac{2}{5}$ and the reciprocal of $7\frac{1}{2}$? (CBQ)
- Q2.** A truck covers a distance of $62\frac{1}{2}$ km in 1 hour. How much distance will it cover in 2 hours at uniform speed?
- Q3.** Meghna has $6\frac{1}{4}$ kg of cotton wool for making pillows. If one pillow takes $1\frac{1}{4}$ kg, how many pillows can she make?
- Q4.** Find: (i) $\frac{5}{6}$ of a day
(ii) $\frac{1}{5}$ of $4\frac{3}{8}$
- Q5.** A rope of length $4\frac{2}{7}$ m is cut into small pieces each of length $\frac{3}{7}$ m. Find the number of pieces cut from the rope.
- Q6.** Find the value of $5\frac{3}{4} \times 1\frac{1}{3}$.
- Q7.** Anika plants 6 mango trees in row in her garden. The distance between two adjacent mango trees is $\frac{3}{10}$ m. Find the distance between the first and the last mango tree.

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

- Q8.** The product of two numbers is $15\frac{5}{6}$. If one number is $6\frac{2}{3}$, then what is the other number?
- Q9.** Find the reciprocal of:
i) $4\frac{3}{7}$
ii) $\frac{1}{9}$
- Q10.** What is $\frac{1}{2}$ of $\frac{1}{5}$ of 68050? (CBQ)

Q11.	Which is greater: $\frac{3}{4}$ of $\frac{12}{15}$ or $\frac{6}{5}$ of $\frac{35}{48}$?
Q12.	<p>Shalini, Amber and Anant have dinner together. The bill for the dinner is ₹3285. They divide it among themselves. They have some starters, some drinks and the main course in the dinner. One-third of the bill was for drinks and one-fifth for starters and the remaining for the main course. (CBQ)</p> <p>(i) What amount is paid for the starters? (ii) How much is paid for the drinks? (iii) What amount is paid for the main course?</p>
LONG ANSWER TYPE- 3 QUESTIONS. (4 Marks each)	
Q13.	<p>Sneha bought a rectangular carpet of length $2\frac{3}{4}$m and breadth $\frac{15}{8}$m to lay in her living room.</p> <p>(i) Find the area covered by the new carpet. (ii) Find the perimeter of the carpet.</p>
Q14.	$\frac{1}{8}$ of a number equals $\frac{2}{5} \div \frac{1}{20}$. What is the number? (CBQ)
Q15.	<p>Among 240 students, it was found that $\frac{2}{5}$ of the students preferred to play hockey, $\frac{1}{8}$ of the students preferred to play cricket, $\frac{1}{4}$ of the students preferred to play football and the remaining preferred badminton.</p> <p>(a) How many students prefer hockey? (b) How many students prefer cricket? (c) How many students prefer football? (d) What fraction of students preferred badminton?</p>

ANSWERS

Q1.	$1\frac{23}{25}$	Q2.	125km	Q3.	5 pillows
Q4.	(i) 20 hours (ii) $\frac{7}{8}$	Q5.	10 pieces	Q6.	$7\frac{2}{3}$
Q7.	$1\frac{1}{2}m$	Q8.	$2\frac{3}{8}$	Q9.	(i) $\frac{7}{31}$ (ii) 9
Q10.	6805	Q11.	$\frac{6}{5}$ of $\frac{35}{48} > \frac{3}{4}$ of $\frac{12}{15}$	Q12.	(i) ₹657 (ii) ₹1095 (iii) ₹1533
Q13.	(i) $5\frac{5}{32}m^2$ (ii) $9\frac{1}{4}m$	Q14.	64	Q15.	(a) 96 (b) 30 (c) 60 (d) $\frac{9}{40}$