

Fractions

Class VI Mathematics – Worksheets

FRACTIONS

WORKSHEET-1

Section A: MCQs (PART-1) ($10 \times 1 = 10$ marks)

1. Which of the following is not the fractional unit ?

- a) $\frac{1}{2}$ b) $\frac{1}{4}$ c) $\frac{1}{7}$ d) $\frac{2}{7}$

2. Three notebooks together weigh 1 kg. Weight of each notebook is....

- a) $\frac{1}{3}$ kg b) 3kg c) $\frac{2}{3}$ kg d) 350 gram

3. Which of the following is a proper fraction?

- a) $\frac{3}{7}$ b) $\frac{7}{3}$ c) $\frac{4}{3}$ d) $\frac{5}{4}$

4. How many fractions lie between 0 and 1?

- a) 1 b) 0 c) 2 d) uncountable

5. How many whole units are there in $\frac{5}{2}$ and in $\frac{9}{2}$?

- a) 2, 3 b) 4, 2 c) 2, 4 d) none of these

6. Simplest form of $\frac{14}{42}$ is

- a) $\frac{7}{21}$ b) $\frac{2}{6}$ c) $\frac{1}{3}$ d) none of these

7. $\frac{5}{9} + \frac{4}{9} = ?$

- a) $\frac{1}{9}$ b) $\frac{9}{9}$ c) 1 d) both b and c

8. $\frac{1}{5} - \frac{1}{15} = ?$

- a) $\frac{2}{15}$ b) $\frac{2}{5}$ c) $\frac{1}{10}$ d) $\frac{3}{15}$

9. Which of these fractions is greater?

- a) $\frac{7}{3}$ b) $\frac{7}{4}$ c) $\frac{7}{2}$ d) $\frac{7}{5}$

10. A pizza is divided into 10 equal parts. You eat 4 parts. What fraction of the pizza remains?

- a) $\frac{4}{10}$ b) $\frac{6}{10}$ c) $\frac{6}{5}$ d) $\frac{4}{5}$

MCQs (PART-2) ($10 \times 1 = 10$ marks)

11. If 1 roti is divided equally among 5 children, each gets:

- a) $\frac{1}{2}$ b) $\frac{1}{4}$ c) $\frac{1}{3}$ d) $\frac{1}{5}$

12. Which of the following is a mixed fraction?

- a) $\frac{3}{5}$ b) $\frac{9}{5}$ c) $2\frac{2}{3}$ d) $\frac{2}{3}$

13. Expressing a fraction in lowest terms means:

- a) Numerator and denominator have only 1 as common factor
b) Numerator larger than denominator
c) Numerator smaller than denominator
d) none of these

14. Which of these fractions is greater?

- a) $\frac{7}{3}$ b) $\frac{8}{3}$ c) $\frac{9}{3}$ d) $\frac{6}{3}$

15. Which of the following is not the simplest form

- a) $\frac{12}{13}$ b) $\frac{15}{16}$ c) $\frac{31}{29}$ d) $\frac{26}{91}$

16. Which of the following fractions represents the greatest quantity?

- a. $\frac{5}{8}$ b. $\frac{3}{4}$ c. $\frac{7}{10}$ d. $\frac{2}{3}$

17. Riya coloured $\frac{2}{5}$ of a picture, and Aman coloured another $\frac{1}{5}$ of the same picture. What fraction of the picture is still uncoloured?

- a. $\frac{2}{5}$ b. $\frac{3}{5}$ c. $\frac{1}{5}$ d. $\frac{4}{5}$

18. Which pair of fractions is equivalent?

- a. $\frac{4}{6}$ and $\frac{6}{8}$ b. $\frac{3}{5}$ and $\frac{9}{15}$ c. $\frac{5}{8}$ and $\frac{10}{18}$ d. $\frac{7}{9}$ and $\frac{14}{20}$

19. Which mixed number is equal to the improper fraction $\frac{17}{5}$?

- a. $2\frac{2}{5}$ b. $3\frac{2}{5}$ c. $3\frac{3}{5}$ d. $4\frac{2}{5}$

20. Which statement is always true?

- a. Every improper fraction is less than 1.
b. Every equivalent fraction has the same value.
c. Every fraction with a larger denominator is greater.
d. The numerator of a proper fraction is always greater than the denominator.

WORKSHEET-2

Section B: Short Answer ($10 \times 2 = 20$ marks)

1. Make $\frac{1}{3}$ using a paper strip. Can you use this to also make $\frac{1}{6}$?

2. Khushi walked $\frac{2}{5}$ km in the morning and $\frac{3}{5}$ km in the evening. What is the total distance she walked? Express your answer in the simplest form.

3. A water bottle was $\frac{5}{6}$ full. Neha drank $\frac{1}{3}$ of the bottle's capacity. What fraction of the bottle remained filled?

4. Four apples together weigh 1 kg. Find the weight of each apple. What will be the weight of 3 apples in kg together ?

5. $\frac{7}{29} + \frac{17}{58}$.

6. Two students spent $\frac{2}{9}$ and $\frac{7}{9}$ of an hour solving a puzzle. Did they spend more than one hour . Show your calculations?

7. Draw a picture and write an addition statement for “ 6 times $\frac{1}{4}$ of a roti”.

8. Simplify and express as a mixed fraction: $\frac{15}{4} + \frac{9}{4}$.

9. Arrange the fractions $\frac{4}{3}$, $\frac{2}{3}$, $\frac{5}{3}$ in ascending order.

10. Write four equivalent fractions for $\frac{2}{6}$.

Section C: Short Answer ($6 \times 3 = 18$ marks)

11. Write the following fractions in ascending order : $\frac{3}{15}$, $\frac{3}{5}$, $\frac{9}{10}$

12. Hemant mixes $\frac{2}{3}$ litres of yellow paint with $\frac{3}{4}$ litres of blue paint to make green paint. What is the volume of green paint he has made ?

13. On a number line, draw lines of lengths $\frac{1}{10}$, $\frac{3}{10}$, and $\frac{4}{5}$.

14. Solve $\frac{13}{29} + \frac{1}{7} + \frac{16}{29}$

15.. A student scored $\frac{3}{5}$ marks in Mathematics and $\frac{7}{10}$ marks in science. In which subject did the student perform better? By what fraction?

16. $\frac{13}{11} - \frac{11}{13}$

Section D: Long Answer ($4 \times 5 = 20$ marks)

17. Write the following fractions in descending order. $\frac{15}{16}, \frac{5}{8}, \frac{11}{4}, \frac{17}{32}$

18. Maya's school is $\frac{8}{10}$ km from her home. She takes an auto for $\frac{1}{2}$ km from her home daily, and then walks the remaining distance to reach her school. How much does she walk daily to reach the school?

19. Three students spent $\frac{2}{9}$, $\frac{1}{3}$, and $\frac{1}{6}$ of an hour solving a puzzle.

Did they spend more than one hour all together?

20. Ram, Shyam, and Karan shared a pizza with 16 slices. Rohan ate 3 slices, Priya ate 5 slices, and Ali ate 4 slices. Answer the questions given below:

- a) What fraction of the whole pizza did all person eat?
- b) What fraction of the pizza was left over?

Case Study Based Questions ($2 \times 4 = 8$ marks)

21. In an IPL playoff match, Rajasthan Royals scored **180 runs** in 20 overs. Out of these:

- **60** runs were scored in boundaries (4s).
- **45** of the runs were scored through sixes.
- The remaining runs were scored by running between the wickets.

Meanwhile, Gujarat Titans scored **160 runs**. Out of these:

- **60** the runs came from boundaries.
- **36** runs came from sixes.
- The remaining runs were scored by running between the wickets.

Q a) What fraction of Rajasthan Royals' runs came from boundaries and sixes together?

Q b) What fraction runs scored through sixes by Gujarat Titan?

Q c) What fraction of Rajasthan Royals' total runs was scored by running between the wickets?

22. 120 Students of PM Shri Kendriya Vidyalaya No. 2 Ambala Cantt went on an educational tour to Indian Institute of Technology Guwahati. The total distance from Ambala Cantonment to Guwahati is approximately **2,000 km**. During the journey train covered 500 km on the first day. It covered $\frac{3}{8}$ of the distance on the second day. The remaining distance was covered on the third day. $\frac{1}{3}$ of the students were from Class VI. $\frac{1}{6}$ of the students were from Class VII. The remaining students were from other classes.

Read the case study carefully and answer the following questions.

Q a) What fraction of total distance was covered on the first day?

Q b) What fraction of the total distance was covered in the first two days?

Q c) The fraction of distance covered on the second day is $\frac{3}{8}$. Convert it into an equivalent fraction with denominator 24.

Self Assessment:

I understood all the concepts ☐ Yes ☐ No

I need more practice ☐ Yes ☐ No

Name of Concepts having doubts/Not Cleared: _____

Parent's Assessment:

My ward understood all the concepts ☐ Yes ☐ No

He/She need more practice ☐ Yes ☐ No

Name of Concepts having doubts/Not Cleared: _____

Signature of Parent:

Teacher's Assessment

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Answers of Worksheet 1:

Q N	1	2	3	4	5	6	7	8	9	10	11	12	13
ANS	d	a	a	d	c	c	c	a	c	b	d	c	a
Q N	14	15	16	17	18	19	20						
ANS	c	d	b	a	b	b	b						

Answers of Worksheet 2:

Q N	1	2	3	4	5	6	7	8
ANS		1km	1/2	$\frac{1}{4}, \frac{3}{4}$	31/58	No, 1 h		6
Q N	9	10	11	12	13	14	15	16
ANS	2/3, 4/3, 5/3	1/3, 3/9, 4/12	3/5, 13/15 ,9/10	17/12		8/7	Science, 1/10	48/143
Q N	17	18	19	20	21	22		
ANS	11/4, 15/16 , 5/8, 17/32	3/10	13/18 no	12/16, 4/16	105/180 36/160 75/180	1/4 5/8 9/24		