

Worksheet 1

1. a. Write $\frac{20}{45}$ in its lowest form.

b. Are $\frac{13}{26}$ and $\frac{50}{100}$ equivalent fractions?

c. Convert $\frac{45}{7}$ into a mixed fraction.

d. Convert $5\frac{1}{9}$ to an improper fraction.

e. Solve:

i. $\frac{7}{20} + \frac{3}{25}$

ii. $1 - \frac{3}{8}$

iii. $\frac{2}{9} \times \frac{5}{7} \times \frac{14}{15}$

iv. $\frac{6}{11} \div \frac{24}{33}$

2. A wall is $8\frac{3}{4}$ m long. John painted $5\frac{1}{4}$ m of the wall. How much of the wall is left to be painted?

3. $\frac{1}{5}$ of 30 children went for a picnic. How many children went for the picnic?

4. I ate $\frac{1}{5}$ of the cake on Monday and $\frac{1}{6}$ of the cake on Tuesday. How much of the cake is still left?

5. Match each fraction in Column A to its answer in Column B.

A

B

$\frac{1}{6}$

Mixed fraction

$2\frac{1}{3}$

Improper fraction

$\frac{9}{5}$

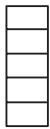
Unit fraction

$\frac{4}{7}$

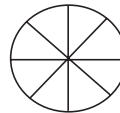
Proper fraction

6. Shade the following figures according to the fractions written.

a. $\frac{1}{5}$



b. $\frac{3}{8}$



7. Write the fractions for the shaded and the non-shaded parts of the following figures.

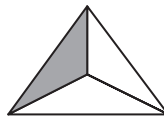
a.



Shaded part _____

Non-shaded part _____

b.



Shaded part _____

Non-shaded part _____

8. Write three equivalent fractions for the following.

a. $\frac{1}{8}$

b. $\frac{2}{9}$

9. Are the following pairs of fractions equivalent?

a. $\frac{2}{9}$ and $\frac{24}{108}$

b. $\frac{3}{11}$ and $\frac{36}{134}$

10. Fill in the boxes with $>$, $<$ or $=$.

a. $\frac{5}{11}$ $\frac{2}{11}$

b. $\frac{23}{5}$ $\frac{23}{2}$

11. Write the following fractions in ascending order.

a. $\frac{8}{9}$, $\frac{1}{18}$, $\frac{5}{6}$

b. $\frac{2}{3}$, $\frac{1}{6}$, $\frac{5}{12}$

12. Write the following fractions in descending order.

a. $\frac{1}{4}$, $\frac{7}{12}$, $\frac{5}{8}$

b. $\frac{4}{15}$, $\frac{4}{5}$, $\frac{1}{30}$

13. Write the following fractions in their simplest form.

a. $\frac{5}{18}$

b. $\frac{36}{48}$

c. $\frac{210}{350}$

d. $8\frac{20}{1700}$

14. Convert the following improper fractions into mixed fractions.

a. $\frac{21}{8}$

b. $\frac{102}{9}$

c. $\frac{254}{8}$

15. Convert the following mixed fractions into improper fractions.

a. $2\frac{1}{5}$

b. $17\frac{3}{4}$

c. $82\frac{1}{7}$

d. $125\frac{2}{9}$

16. Solve the following.

a. $\frac{7}{9} + \frac{1}{9}$

b. $\frac{14}{7} + \frac{1}{21}$

c. $\frac{3}{8} + \frac{1}{12} + \frac{5}{24}$

d. $9\frac{1}{6} + 5\frac{4}{9} + 8\frac{1}{18}$

17. Solve the following.

a. $\frac{18}{19} - \frac{3}{19}$

b. $\frac{11}{18} - \frac{1}{9}$

c. $1 - \frac{6}{7}$

d. $19\frac{11}{36} - 2\frac{1}{12}$

18. Solve the following.

a. $\frac{18}{12} \times \frac{9}{4}$

b. $\frac{5}{8} \times 12$

c. $4\frac{6}{9} \times \frac{7}{12} \times \frac{3}{11}$

d. $\frac{11}{13}$ of $\frac{39}{121}$ of $\frac{26}{7}$

19. Solve the following.

a. $\frac{12}{38} \div \frac{17}{18}$

b. $\frac{39}{2} \div 13$

c. $4\frac{12}{15} \div 5\frac{20}{25}$

d. $\frac{\frac{56}{12}}{\frac{40}{14}}$

e. $\frac{99}{9}$
 $\frac{11}{11}$

20. Reena ate $\frac{3}{8}$ of the cake and Savita ate $\frac{2}{9}$ of the cake. Who ate more cake?

21. Shivya spent $\frac{1}{5}$ of her holidays in Delhi, $\frac{3}{7}$ of them in Chennai and the rest in Mumbai. What fraction of her holidays did she spend in Mumbai?

22. 1 book costs ₹ $7\frac{2}{5}$. What will be the cost of 8 such books?

Worksheet 2

1. Fill in the blanks.

- Fractions with the same denominator are called _____
- Fractions with one as numerator are known as _____
- Fractions which have the same value are called _____
- Fractions in which the numerator is a smaller number than the denominator are called _____
- To get the simplest form of a fraction, the numerator and denominator are divided by their _____

2. Identify like fractions, unit fractions and the mixed fractions.

$$\frac{1}{2}, \frac{1}{4}, 3\frac{1}{2}, \frac{3}{6}, \frac{3}{5}, 7\frac{3}{5}, \frac{9}{15}, \frac{1}{9}$$

3. Reduce the following fractions to their lowest forms.

a. $\frac{12}{14}$

b. $\frac{16}{36}$

c. $\frac{45}{81}$

d. $\frac{56}{124}$

e. $\frac{125}{225}$

4. Compare the following fractions.

a. $\frac{3}{5}$ — $\frac{2}{5}$

b. $\frac{14}{8}$ — $\frac{12}{8}$

c. $\frac{6}{18}$ — $\frac{14}{18}$

d. $\frac{3}{7}$ — $\frac{4}{9}$

e. $\frac{8}{5}$ — $\frac{5}{13}$

f. $\frac{13}{15}$ — $\frac{7}{18}$

g. $\frac{5}{3}$ — $\frac{12}{8}$

5. Arrange the following fractions in the ascending order.

a. $\frac{3}{5}, \frac{2}{5}, \frac{14}{8}, \frac{6}{13}$

b. $\frac{5}{4}, \frac{5}{7}, \frac{5}{3}, \frac{5}{9}$

6. Arrange the following fractions in the descending order.

a. $\frac{4}{12}, \frac{5}{4}, \frac{3}{6}, \frac{1}{2}$

b. $\frac{2}{4}, \frac{1}{5}, \frac{3}{7}, \frac{3}{10}$

7. Add the following like fractions.

a. $\frac{4}{13} + \frac{6}{13}$

b. $\frac{12}{24} + \frac{15}{24}$

c. $\frac{15}{26} + \frac{18}{26}$

d. $\frac{19}{14} + \frac{21}{50}$

8. Add the following unlike fractions.

a. $\frac{4}{16} + \frac{3}{12}$

b. $\frac{15}{24} + \frac{7}{12}$

c. $\frac{5}{6} + \frac{2}{4}$

d. $\frac{5}{9} + \frac{2}{18} + \frac{6}{27}$

9. 3000 litres of water is poured in buckets. Each bucket contains $\frac{3}{5}$ of a litre. How many buckets are needed?

10. $\frac{2}{5}$ of 5000 people in a town go for morning walk. How many people go for morning walk and how many do not?