Add the following:

1. $\dfrac{1}{10}+\dfrac{3}{10}+\dfrac{8}{10}$

2. $\dfrac{5}{12}+\dfrac{4}{12}+\dfrac{1}{12}$

3. $\dfrac{7}{15}+\dfrac{8}{15}+\dfrac{11}{15}+\dfrac{10}{15}$

4. $\dfrac{1}{3}+\dfrac{1}{6}$

5. $\dfrac{1}{7}+\dfrac{1}{21}$

6. $\dfrac{1}{4}+\dfrac{1}{6}$

7. $\dfrac{1}{6}+\dfrac{1}{8}+\dfrac{1}{12}$

8. $\dfrac{1}{4}+\dfrac{1}{6}+\dfrac{1}{8}$

9. $\dfrac{1}{9}+\dfrac{1}{18}+\dfrac{1}{27}$

10. $\dfrac{3}{4}+\dfrac{1}{18}$

11. $\dfrac{1}{4}+\dfrac{15}{16}$

12. $\dfrac{5}{8}+\dfrac{7}{12}$

13. $\dfrac{3}{4}+\dfrac{7}{18}+\dfrac{5}{36}$

14. $\dfrac{1}{6}+\dfrac{5}{12}+\dfrac{11}{24}$

15. $\dfrac{2}{3}+\dfrac{5}{9}+\dfrac{1}{24}$

16. $\dfrac{2}{3}+\dfrac{5}{18}+\dfrac{7}{12}$

17. $6\dfrac{1}{8}+3\dfrac{1}{8}$

18. $1\dfrac{4}{5}+3\dfrac{2}{5}$

19. $6\dfrac{7}{15}+2\dfrac{4}{5}$

20. $2\dfrac{7}{8}+8\dfrac{5}{6}$

21. $5\dfrac{2}{9}+3\dfrac{1}{18}+1\dfrac{1}{12}$

22. $2\dfrac{5}{8}+4\dfrac{7}{12}+1\dfrac{1}{6}$

23. $3\dfrac{1}{9}+4\dfrac{5}{12}+\dfrac{17}{24}$

24. $1\dfrac{7}{8}+2\dfrac{1}{5}+\dfrac{2}{3}$

Subtract the following:

1. $\dfrac{11}{17}-\dfrac{5}{17}$

2. $\dfrac{7}{12}-\dfrac{3}{12}$

3. $\dfrac{1}{3}-\dfrac{1}{4}$

4. $\dfrac{1}{8}-\dfrac{1}{12}$

5. $\dfrac{3}{7}-\dfrac{5}{14}$

6. $\dfrac{7}{8}-\dfrac{3}{4}$

7. $\dfrac{7}{8}-\dfrac{5}{12}$

8. $\dfrac{7}{16}-\dfrac{1}{24}$

9. $\dfrac{1}{6}-\dfrac{1}{7}$

10. $\dfrac{5}{9}-\dfrac{7}{18}$

11. $\dfrac{3}{4}-\dfrac{1}{5}$

12. $2\dfrac{1}{2}-1\dfrac{3}{4}$

13. $4\dfrac{3}{4}-2\dfrac{1}{6}$

14. $3\dfrac{3}{8}-2\dfrac{1}{12}$

15. $3\dfrac{1}{6}-1\dfrac{5}{8}$

16. $5\dfrac{1}{3}-2\dfrac{3}{4}$

17. $3\dfrac{7}{12}-2\dfrac{5}{6}$

18. $5-2\dfrac{7}{8}$

19. $6-1\dfrac{5}{9}$

20. $7\dfrac{1}{5}-3\dfrac{9}{10}$

1. Rinki read $\frac{1}{3}$ part of a book on Monday, $\frac{3}{8}$ part on Tuesday and $\frac{1}{12}$ part on Wednesday. What fraction of the book did she read in 3 days?

2. Three pins are $\frac{3}{5}$ cm, $\frac{7}{10}$ cm and $\frac{11}{15}$ cm long. They are placed end to end. Find heir total length.

3. Rita does her homework on Wednesday in $\frac{2}{3}$ hours, on Thursday in $\frac{3}{4}$ hours and on Friday in $\frac{5}{6}$ hours. How much time does she work in three days?

4. Rishab spent ₹ $15\frac{3}{10}$ on buying a book and ₹ $8\frac{2}{5}$ on lunch. How much money did he spend?

5. Priyanka bought some tomatoes. She used $1\frac{1}{8}$ kg of these tomatoes for making soup and used $2\frac{5}{6}$ kg for making vegetables for the family in a week. Find the total weight of tomatoes she bought.

6. The sum of two numbers is $\frac{11}{12}$. If one of them is $\frac{5}{6}$, find the other.

7. A tin contains $\frac{7}{8}$ litre oil. If $\frac{2}{5}$ litre oil is leaked, how much oil is in the tin now?

Find:

1. $\frac{1}{4}$ of $\frac{1}{8}$

2. $\frac{1}{3}$ of $\frac{5}{12}$

3. $\frac{1}{2}$ of $\frac{4}{7}$

4. $\frac{2}{3}$ of $\frac{4}{5}$

Multiply:

5. $\frac{5}{6} \times \frac{7}{9}$

6. $\frac{11}{16} \times \frac{5}{3}$

7. $\frac{5}{7} \times \frac{7}{15}$

8. $\frac{13}{18} \times \frac{9}{13}$

9. $\frac{3}{4} \times \frac{4}{3}$

10. $\frac{5}{6} \times \frac{16}{3}$

11. $\frac{8}{3} \times \frac{3}{4}$

12. $1\frac{2}{9} \times \frac{3}{5}$

13. $9\frac{4}{5} \times 2\frac{1}{7}$

14. $7\frac{2}{3} \times 2\frac{2}{5}$

15. $12\frac{1}{2} \times 1\frac{1}{3}$

State which of the following statements are true and which are false:

16. $\frac{5}{6} \times \frac{7}{8} = \frac{5 \times 7}{6 \times 8}$

17. $19\frac{1}{2} \times \frac{2}{39} = 1$

18. $3\frac{2}{3} \times \frac{2}{5} = \frac{3 \times 2 \times 2}{3 \times 5}$

19. $5\frac{1}{7} \times \frac{3}{4} = 5 + \frac{1}{7} \times \frac{3}{4}$

20. $\frac{8}{9} \times \frac{5}{6} = \frac{8 \times 5}{6 \times 9}$

21. $2\frac{1}{3} \times 2\frac{1}{3} = 4\frac{1}{9}$

Simplify:

1. $\dfrac{1}{2} \times \dfrac{3}{4} \times \dfrac{8}{9}$

2. $\dfrac{2}{3} \times \dfrac{1}{2} \times \dfrac{2}{7}$

3. $\dfrac{3}{7} \times 1\dfrac{2}{9} \times \dfrac{2}{3}$

4. $\dfrac{3}{4} \times 1\dfrac{1}{3} \times 4\dfrac{6}{7}$

5. $5\dfrac{1}{3} \times 4\dfrac{1}{2} \times \dfrac{8}{9}$

6. $2\dfrac{1}{4} \times 3\dfrac{1}{5} \times 2\dfrac{2}{3}$

7. $\dfrac{4}{15} \times \left(\dfrac{1}{2} + \dfrac{3}{4}\right)$

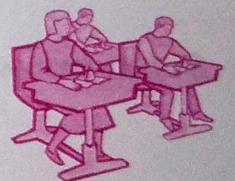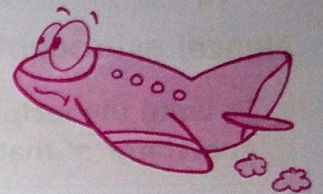8. $\left(1\dfrac{4}{7} + 1\dfrac{3}{14}\right) \times 2\dfrac{1}{3}$

9. $\left(2\dfrac{2}{5} - 1\dfrac{1}{2}\right) \times \dfrac{2}{3}$

10. $\dfrac{3}{4} \times \dfrac{2}{3} + \dfrac{3}{4} \times \dfrac{1}{3}$

11. $1\dfrac{5}{6} \times 2\dfrac{3}{4} + 1\dfrac{5}{6} \times 1\dfrac{3}{4}$

12. $\dfrac{2}{3} \times \dfrac{2}{3} - \dfrac{1}{4} \times \dfrac{2}{3}$

1. Find: (a) $\dfrac{2}{5}$ of a rupee   (b) $\dfrac{3}{4}$ of a km   (c) $\dfrac{7}{10}$ of a litre

2. The cost of an electric bulb is ₹$6\dfrac{1}{2}$. Find the cost of 50 bulbs.

3. The cost of one metre of cloth is ₹$13\dfrac{2}{5}$. Find the cost of 15 m of cloth.

4. The cost of one litre of milk is ₹24. Find the cost of $14\dfrac{1}{2}$ litres of milk.

5. A water tank can hold $51\dfrac{3}{4}$ litres of water. How much water will be contained in half the tank?

6. A man can walk $5\dfrac{3}{4}$ km in an hour. How much distance will he cover in $4\dfrac{1}{2}$ hours?

7. An aeroplane covers 1200 km in an hour. How much distance will it cover in $4\dfrac{5}{6}$ hours?

8. The capacity of a parking place is 80 cars. $\dfrac{3}{4}$ of the parking place is full at a particular time. How many more cars can be parked at that time?

9. A class has 45 students. $\dfrac{2}{3}$ of the class went on a picnic. How many students went on the picnic?

10. A cinema hall has 450 seats. $\dfrac{4}{5}$ seats were occupied in a show. How many people watched the movie? How many seats were vacant?

11. 500 students sat for a competitive examination. $\dfrac{9}{10}$ of the students passed. How many students were not successful?

12. Two-thirds of the students in classes I to X in a school are boys. $\dfrac{3}{4}$ of these are in classes I to VIII. What fraction of the students studying in classes I to VIII are boys?

Write the reciprocal.

1. 5

2. 9

3. $\frac{1}{3}$

4. $\frac{5}{11}$

5. $\frac{47}{29}$

6. $\frac{35}{12}$

7. $1\frac{7}{8}$

8. $2\frac{4}{9}$

Simplify:

9. $\frac{1}{3} \div 5$

10. $\frac{9}{13} \div 3$

11. $\frac{3}{5} \div 9$

12. $\frac{7}{11} \div 14$

13. $\frac{8}{11} \div 4$

14. $2\frac{1}{3} \div 21$

15. $1\frac{3}{5} \div 8$

16. $1\frac{6}{7} \div 39$

17. $3\frac{9}{25} \div 6$

18. $17\frac{1}{2} \div 15$

19. $7\frac{7}{10} \div 33$

20. $3\frac{5}{8} \div 29$

Simplify:

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

2. $\frac{4}{9} \div \frac{1}{2}$

3. $\frac{5}{8} \div \frac{2}{3}$

4. $\frac{4}{9} \div \frac{4}{7}$

5. $\frac{8}{29} \div \frac{8}{13}$

6. $\frac{6}{11} \div 1\frac{2}{11}$

7. $\frac{7}{22} \div 3\frac{1}{2}$

8. $\frac{5}{9} \div 1\frac{1}{3}$

9. $9 \div 4\frac{1}{2}$

10. $6 \div 1\frac{1}{5}$

11. $4\frac{1}{2} \div \frac{5}{4}$

12. $15\frac{2}{3} \div \frac{5}{9}$

13. $3\frac{5}{8} \div 1\frac{5}{24}$

14. $8\frac{2}{3} \div 4\frac{1}{3}$

15. $7\frac{2}{9} \div 2\frac{2}{3}$

1. The product of two numbers is $2\frac{4}{5}$. If one of the numbers is $1\frac{1}{6}$, find the other.

2. The product of two numbers is $6\frac{1}{9}$. If one of the numbers is $3\frac{2}{3}$, find the other.

3. A man is the owner of $\frac{4}{5}$ of a property. He divides it equally among his 3 children. Find the share of each child.

4. 50 litres of milk was divided equally among students of a school. If each student got $\frac{1}{4}$ litre of milk, find the number of students in the school.

5. How many half litre bottles of milk can be filled from a can containing $85\frac{1}{2}$ litres of milk?

6. Vipin takes $7\frac{1}{2}$ hours to paint 5 tables. How much time will he take to paint I table?

7. How many pieces of length, each measuring $4\frac{3}{5}$ metres, can be cut from a roll of cloth of length 46 metres?

8. Rashmi has $\frac{2}{7}$ of a tape. If her share measures 6 metres, find the total length of the tape.

9. When I have travelled $4\frac{1}{2}$ km, I have completed $\frac{3}{7}$ of my journey. What is the total length of my journey?

10. When I have travelled 25 km, still $\frac{3}{5}$ of my journey is left. What is the total length of my journey?

11. In a school each student pays ₹$3\frac{1}{5}$ as library fund. If the amount collected is ₹$406\frac{2}{5}$, find the number of students in the school.

12. At a charity show in a school each student buys a ticket costing ₹$7\frac{1}{2}$. If the amount collected is ₹3000, find the number of tickets sold.

13. A bag can hold $38\frac{3}{4}$ kg rice. If $1937\frac{1}{2}$ kg rice is to be put in bags, find the number of bags needed.

14. Nidhi has ₹48. She spends $\frac{1}{2}$ of her money on books and $\frac{1}{3}$ of the remaining money on lunch in the school. How much money is left with her?

15. A water tank is $\frac{1}{5}$ full. After drawing off 16 litres it is just $\frac{1}{6}$ full. What is the capacity of the water tank?

16. Rekha uses $\frac{3}{4}$ of the kitchen garden for growing vegetables. $\frac{1}{3}$ of this part is used for growing tomatoes. If the kitchen garden is 100 square metres, how much is used for growing tomatoes?

17. Express ₹5, 25 P as a fraction of ₹26, 25 P.

18. Express 55 litres 300 mL as a fraction of 100 litres.

19. Express 10 m 50 cm as a fraction of 27 m 50 cm.

20. Express 15 kg as a fraction of 50 kg 250 g.