

Adding Like Fractions and Mixed Numbers

Like fractions have the same denominator. Add like fractions by adding the numerators. Use the same denominator.

Add. $\frac{5}{8} + \frac{1}{8}$

Add the numerators.

Write the common denominator.

Reduce to lowest terms.

$$\frac{5+1}{8} = \frac{6}{8}$$

$$\frac{6}{8} = \frac{3}{4}$$

Add mixed numbers the same way. Regroup, if needed.

Add. $3\frac{4}{5} + 4\frac{2}{5}$

Add the whole numbers.

Add the fractions.

Regroup the improper fraction.

Add the whole numbers.

$$3\frac{4}{5} + 4\frac{2}{5} = 7\frac{6}{5}$$

$$7 + 1\frac{1}{5} = 8\frac{1}{5}$$

Add the fractions. Reduce your answer to lowest terms, if possible.

1. $\frac{1}{2} + \frac{1}{2} =$

2. $\frac{5}{8} + \frac{2}{8} =$

3. $\frac{1}{4} + \frac{2}{4} =$

4. $\frac{3}{10} + \frac{8}{10} =$

5. $\frac{5}{6} + \frac{2}{6} =$

6. $\frac{4}{5} + \frac{1}{5} =$

7. $\frac{2}{3} + \frac{2}{3} =$

8. $\frac{15}{24} + \frac{22}{24} =$

Add the mixed numbers. Reduce your answer to lowest terms, if possible.

9. $6\frac{3}{4} + 1\frac{1}{4} =$

10. $9\frac{5}{6} + 2\frac{2}{6} =$

11. $1\frac{2}{5} + 4\frac{1}{5} =$

12. $6\frac{2}{10} + 5\frac{7}{10} =$

13.
$$\begin{array}{r} 10\frac{7}{8} \\ + 5\frac{4}{8} \\ \hline \end{array}$$

14.
$$\begin{array}{r} 13\frac{2}{3} \\ + 34\frac{1}{3} \\ \hline \end{array}$$

15.
$$\begin{array}{r} 18\frac{6}{10} \\ + 40\frac{1}{10} \\ \hline \end{array}$$

16.
$$\begin{array}{r} 40\frac{5}{15} \\ + 67\frac{3}{15} \\ \hline \end{array}$$

17.
$$\begin{array}{r} 125\frac{3}{5} \\ + 25\frac{2}{5} \\ \hline \end{array}$$

Solve.

18. A dressmaker is making two costumes for a play. She needs to buy fringe. One costume requires $\frac{6}{8}$ yard of fringe. The other needs $\frac{4}{8}$ yard of fringe.

How much fringe should she buy? _____

Directions: Choose the one best answer to each item. Circle the number of the correct answer.

19. A jeweler is making a beaded necklace and a matching bracelet. She needs $1\frac{2}{3}$ ft of string for the necklace and $\frac{2}{3}$ ft of string for the bracelet. How much total string does she need?
- (1) $2\frac{2}{3}$ ft
 - (2) $\frac{4}{3}$ ft
 - (3) $2\frac{1}{3}$ ft
 - (4) 3 ft
 - (5) $\frac{5}{3}$ ft
20. Dominic ran $3\frac{1}{2}$ mi on Monday. On Tuesday he ran 4 mi. How many total miles did Dominic run in the two days?
- (1) 8 mi
 - (2) $\frac{8}{2}$ mi
 - (3) $7\frac{1}{2}$ mi
 - (4) $1\frac{1}{2}$ mi
 - (5) 4 mi
21. Ms. Burg noticed that she needed oil for three science experiments. She needed $3\frac{1}{4}$ c (cups), $2\frac{3}{4}$ c, and $1\frac{1}{4}$ c. How much oil will she need for the three experiments?
- (1) 6 c
 - (2) $6\frac{6}{4}$ c
 - (3) $6\frac{1}{4}$ c
 - (4) $7\frac{1}{4}$ c
 - (5) 7 c
22. A printer needs $\frac{5}{8}$ in. margin on each side of his paper. What is the total space needed for the two margins?
- (1) $1\frac{1}{4}$ in.
 - (2) $\frac{10}{16}$ in.
 - (3) $1\frac{3}{8}$ in.
 - (4) $\frac{25}{8}$ in.
 - (5) $1\frac{1}{3}$ in.
23. The Terrence family went on two day-trips during the summer. They traveled $35\frac{1}{2}$ mi on the first trip and $59\frac{1}{2}$ mi on the second trip. How many total miles did the family travel for the two trips?
- (1) $95\frac{2}{2}$ mi
 - (2) 24 mi
 - (3) $94\frac{2}{4}$ mi
 - (4) 95 mi
 - (5) none of the above
24. The child grew $\frac{1}{4}$ in. in January, $\frac{3}{4}$ in. in February, $\frac{1}{4}$ in. in March, and $\frac{2}{4}$ in. in April. What was the total amount he grew during February, March, and April?
- (1) $1\frac{3}{4}$ in.
 - (2) $1\frac{1}{4}$ in.
 - (3) $1\frac{1}{2}$ in.
 - (4) $2\frac{3}{4}$ in.
 - (5) 8 in.
25. The chef needs $\frac{3}{4}$ tbs (tablespoon) of cinnamon for one recipe and $1\frac{1}{4}$ tbs for the other. How many tablespoons of cinnamon does he need for both recipes?
- (1) 2 tbs
 - (2) $1\frac{3}{4}$ tbs
 - (3) $1\frac{1}{4}$ tbs
 - (4) $\frac{3}{4}$ tbs
 - (5) 3 tbs