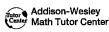
3.3 Exercises



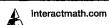


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Study Skills Workbook Activity 9: Mind Maps

Add the following fractions. Simplify all answers. See Examples 1-3.

$$1.\frac{3}{4} + \frac{1}{8}$$

2.
$$\frac{1}{6} + \frac{2}{3}$$

3.
$$\frac{2}{3} + \frac{2}{9}$$

4.
$$\frac{3}{7} + \frac{1}{14}$$

$$(5. \frac{\cancel{9}}{\cancel{20}} + \frac{3}{10})$$

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

7.
$$\frac{3}{5} + \frac{3}{8}$$

8.
$$\frac{5}{7} + \frac{3}{14}$$

$$9.9 + \frac{5}{12}$$

10.
$$\frac{5}{8} + \frac{1}{12}$$

11.
$$\frac{1}{3} + \frac{3}{5}$$

12.
$$\frac{2}{5} + \frac{3}{7}$$

$$13.\frac{1}{4} + \frac{2}{9} + \frac{1}{3}$$

14.
$$\frac{3}{7} + \frac{2}{5} + \frac{1}{10}$$

15.
$$\frac{3}{10} + \frac{2}{5} + \frac{3}{20}$$

16.
$$\frac{1}{3} + \frac{3}{8} + \frac{1}{4}$$

$$(\frac{1}{15}) + \frac{1}{6} + \frac{1}{3}$$

$$17.\frac{4}{15} + \frac{1}{6} + \frac{1}{3}$$
 18. $\frac{5}{12} + \frac{2}{9} + \frac{1}{6}$

19.
$$\frac{1}{4} + \frac{1}{8}$$

20.
$$\frac{7}{12} + \frac{1}{8}$$

$$\frac{5}{12}$$
 + $\frac{1}{16}$

22.
$$\frac{3}{7}$$
 + $\frac{1}{3}$

Subtract the following fractions. Simplify all answers. See Example 4.

23.
$$\frac{5}{6} - \frac{1}{3}$$

24.
$$\frac{3}{4} - \frac{5}{8}$$

25.
$$\frac{2}{3} - \frac{1}{6}$$

26.
$$\frac{3}{4} - \frac{5}{8}$$

27.
$$\frac{2}{3} - \frac{1}{5}$$

28.
$$\frac{5}{6} - \frac{7}{9}$$

29.
$$\frac{5}{12} - \frac{1}{4}$$

30.
$$\frac{5}{7} - \frac{1}{3}$$

31.
$$\frac{8}{9} - \frac{7}{15}$$

32.
$$\frac{4}{5}$$
 $-\frac{1}{3}$

33.
$$\frac{7}{8}$$
 $-\frac{4}{5}$

34.
$$\frac{5}{8}$$
 $-\frac{1}{3}$

35.
$$\frac{5}{12}$$
 $-\frac{1}{16}$

36.
$$\frac{7}{12}$$
 $-\frac{1}{3}$

Solve each application problem.



Use the newspaper advertisement for this 4-piece chisel set to answer Exercises 37–38. (*Source:* Harbor Freight Tools.)

- 37. Find the difference in the cutting-edge width of the two chisels with the widest blades. The symbol " is for inches.
- **38.** Find the difference in the cutting-edge width of the two chisels with the narrowest blades. The symbol " is for inches.