

## LESSON

**3-1****Homework and Practice****Rational Numbers****Simplify.**

1.  $\frac{6}{12}$   
\_\_\_\_\_

2.  $\frac{6}{24}$   
\_\_\_\_\_

3.  $\frac{12}{36}$   
\_\_\_\_\_

4.  $-\frac{8}{32}$   
\_\_\_\_\_

5.  $\frac{15}{27}$   
\_\_\_\_\_

6.  $-\frac{16}{24}$   
\_\_\_\_\_

7.  $-\frac{12}{96}$   
\_\_\_\_\_

8.  $\frac{12}{54}$   
\_\_\_\_\_

**Write each decimal as a fraction in simplest form.**

9. 0.56  
\_\_\_\_\_

10. 3.2  
\_\_\_\_\_

11. 0.036  
\_\_\_\_\_

12. -2.05  
\_\_\_\_\_

13. 3.502  
\_\_\_\_\_

14. 0.064  
\_\_\_\_\_

15. -8.4  
\_\_\_\_\_

16. 0.004  
\_\_\_\_\_

17. -0.70  
\_\_\_\_\_

18. 5.25  
\_\_\_\_\_

19. 0.128  
\_\_\_\_\_

20. 0.0004  
\_\_\_\_\_

**Write each fraction as a decimal.**

21.  $\frac{3}{8}$   
\_\_\_\_\_

22.  $\frac{5}{9}$   
\_\_\_\_\_

23.  $\frac{21}{8}$   
\_\_\_\_\_

24.  $\frac{17}{18}$   
\_\_\_\_\_

25.  $\frac{19}{3}$   
\_\_\_\_\_

26.  $\frac{11}{20}$   
\_\_\_\_\_

27.  $\frac{7}{5}$   
\_\_\_\_\_

28.  $\frac{54}{36}$   
\_\_\_\_\_

29. Make up a fraction that cannot be simplified that has 25 as its denominator.  
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## LESSON

**Homework and Practice****3-5 Adding and Subtracting with Unlike Denominators**

Add or subtract. Write the answer in simplest form.

1.  $\frac{1}{2} - \frac{3}{8}$   
\_\_\_\_\_

2.  $\frac{3}{5} + \frac{1}{4}$   
\_\_\_\_\_

3.  $\frac{7}{9} - \frac{5}{12}$   
\_\_\_\_\_

4.  $-\frac{5}{9} + \frac{2}{3}$   
\_\_\_\_\_

5.  $\frac{3}{10} - \left(-\frac{1}{2}\right)$   
\_\_\_\_\_

6.  $\frac{7}{12} + \left(-\frac{5}{15}\right)$   
\_\_\_\_\_

7.  $-\frac{4}{15} - \frac{2}{5}$   
\_\_\_\_\_

8.  $\frac{5}{12} - \frac{2}{5}$   
\_\_\_\_\_

9.  $-\frac{7}{8} + \frac{5}{12}$   
\_\_\_\_\_

10.  $-2\frac{1}{8} - 3\frac{1}{4}$   
\_\_\_\_\_

11.  $-4\frac{3}{5} + 1\frac{2}{3}$   
\_\_\_\_\_

12.  $6\frac{1}{3} - 4\frac{5}{6}$   
\_\_\_\_\_

13.  $7 - 5\frac{7}{8}$   
\_\_\_\_\_

14.  $8\frac{1}{6} + \left(-\frac{7}{12}\right)$   
\_\_\_\_\_

15.  $-16 + \left(-\frac{8}{9}\right)$   
\_\_\_\_\_

16.  $4\frac{7}{10} - 11$   
\_\_\_\_\_

Evaluate each expression for the given value of the variable.

17.  $-2\frac{5}{8} + x$  for  $x = 3\frac{1}{4}$   
\_\_\_\_\_

18.  $1\frac{1}{2} + x$  for  $x = -2\frac{5}{6}$   
\_\_\_\_\_

19.  $-7\frac{4}{9} - x$  for  $x = -7$   
\_\_\_\_\_

20.  $9\frac{5}{8} + x$  for  $x = 6\frac{3}{4}$   
\_\_\_\_\_

21.  $-15\frac{3}{8} + x$  for  $x = 1\frac{3}{4}$   
\_\_\_\_\_

22.  $-15\frac{2}{9} - x$  for  $x = -12\frac{2}{3}$   
\_\_\_\_\_

23. Brendan practiced soccer for  $1\frac{1}{2}$  hours on Monday,  $1\frac{1}{4}$  hours on Tuesday,  $1\frac{1}{6}$  hours on Wednesday and  $\frac{3}{4}$  hours on Thursday in preparation for the game on Friday. How many total hours did Brendan practice soccer in this week?
- \_\_\_\_\_