

Facts Practice

Write each fraction as a percent.

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|---------------------|---------------------|---------------------|--------------------|
| 1. $\frac{7}{8}$ | 2. $\frac{3}{4}$ | 3. $\frac{1}{10}$ | 4. $\frac{3}{11}$ |
| 5. $\frac{7}{20}$ | 6. $\frac{5}{8}$ | 7. $\frac{1}{5}$ | 8. $\frac{1}{3}$ |
| 9. $\frac{5}{16}$ | 10. $\frac{9}{40}$ | 11. $\frac{3}{8}$ | 12. $\frac{4}{9}$ |
| 13. $\frac{7}{50}$ | 14. $\frac{11}{25}$ | 15. $\frac{7}{15}$ | 16. $\frac{4}{25}$ |
| 17. $\frac{13}{50}$ | 18. $\frac{11}{12}$ | 19. $\frac{1}{100}$ | 20. $\frac{7}{16}$ |

Skills Practice**Rational Numbers**

Write each fraction or mixed number as a decimal.

1. $\frac{1}{10}$

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

3. $-\frac{3}{4}$

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

5. $\frac{21}{50}$

6. $-3\frac{9}{20}$

7. $4\frac{9}{25}$

8. $\frac{7}{9}$

9. $-1\frac{1}{6}$

10. $-2\frac{4}{15}$

11. $\frac{5}{33}$

12. $7\frac{3}{11}$

Write each decimal as a fraction or mixed number in simplest form.

13. 0.9

14. 0.7

15. 0.84

16. -0.92

17. -1.12

18. -5.05

19. -2.35

20. 8.85

21. $-0.\bar{1}$

22. $4.\bar{8}$

23. $6.\bar{7}$

24. $-8.\bar{4}$

Skills Practice**Add and Subtract Rational Numbers**

Add or subtract. Write in simplest form.

1. $\frac{7}{12} + \frac{5}{12}$

2. $\frac{1}{9} + \left(-\frac{4}{9}\right)$

3. $-\frac{5}{7} + \left(-\frac{3}{7}\right)$

4. $-\frac{9}{16} + \left(-\frac{3}{16}\right)$

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

6. $\frac{13}{19} - \frac{6}{19}$

7. $\frac{3}{13} - \left(-\frac{11}{13}\right)$

8. $2\frac{3}{7} + 1\frac{2}{7}$

9. $1\frac{4}{15} + 4\frac{8}{15}$

10. $5\frac{6}{7} - 3\frac{2}{7}$

11. $6\frac{7}{12} - 3\frac{1}{12}$

12. $-2\frac{5}{11} - 7\frac{1}{11}$

13. $\frac{7}{8} + \frac{1}{4}$

14. $\frac{3}{4} + \frac{2}{3}$

15. $\frac{6}{7} - \frac{3}{14}$

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

17. $\frac{1}{4} - \frac{5}{6}$

18. $-\frac{3}{5} + \frac{1}{4}$

19. $3\frac{1}{6} + 4\frac{1}{4}$

20. $1\frac{1}{2} + \left(-1\frac{1}{5}\right)$

21. $2\frac{3}{4} + \left(-6\frac{3}{8}\right)$

22. $5\frac{1}{4} + \left(-2\frac{2}{3}\right)$

23. $-5\frac{1}{12} - 3\frac{2}{3}$

24. $-3\frac{3}{5} - \frac{9}{10}$

Skills Practice**Multiply Rational Numbers**

Multiply. Write in simplest form.

1. $\frac{1}{8} \cdot \frac{2}{3}$

2. $\frac{2}{9} \cdot \frac{7}{8}$

3. $\frac{5}{6} \cdot \frac{3}{11}$

4. $-\frac{4}{7} \cdot \frac{3}{10}$

5. $\frac{2}{9} \cdot \left(-\frac{3}{8}\right)$

6. $-\frac{3}{5} \cdot -\frac{5}{9}$

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

8. $\frac{4}{5} \cdot 4\frac{3}{8}$

9. $-\frac{2}{15} \cdot 5\frac{5}{6}$

10. $-1\frac{3}{7} \cdot 1\frac{1}{5}$

11. $-2\frac{1}{4} \cdot 1\frac{2}{3}$

12. $1\frac{9}{16} \cdot 2\frac{4}{5}$

13. $-3\frac{1}{7} \cdot \left(-1\frac{2}{11}\right)$

14. $2\frac{2}{3} \cdot \left(-2\frac{1}{4}\right)$

15. $\left(-\frac{4}{5}\right)\left(-\frac{4}{5}\right)$

ALGEBRA Evaluate each expression if $r = \frac{5}{6}$, $s = -\frac{1}{3}$, $t = \frac{4}{5}$, and $v = -\frac{3}{4}$.

16. rv

17. st

18. rs

19. stv

20. rst

21. rtv

PROBABILITY A number cube is rolled twice. Find each probability.

22. $P(2 \text{ and } 3)$

23. $P(5 \text{ and odd})$

24. $P(\text{even and prime})$

Skills Practice**Divide Rational Numbers**

Write the multiplicative inverse of each number.

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

2. $-\frac{4}{7}$

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

4. 22

5. $\frac{9}{35}$

6. $-\frac{14}{17}$

7. $1\frac{5}{7}$

8. $-1\frac{3}{13}$

9. -31

10. $-3\frac{6}{11}$

11. $4\frac{8}{15}$

12. $5\frac{3}{5}$

Divide. Write in simplest form.

13. $\frac{3}{7} \div \frac{3}{5}$

14. $\frac{2}{7} \div \frac{6}{7}$

15. $-\frac{5}{8} \div \frac{3}{4}$

16. $\frac{7}{9} \div \left(-\frac{14}{15}\right)$

17. $-\frac{4}{5} \div \frac{8}{9}$

18. $\frac{2}{11} \div \frac{4}{9}$

19. $1\frac{3}{4} \div 2\frac{1}{2}$

20. $-2\frac{3}{5} \div 1\frac{3}{10}$

21. $-3\frac{4}{7} \div \left(-1\frac{1}{14}\right)$

22. $\frac{10}{11} \div 5$

23. $-4 \div \frac{3}{5}$

24. $3\frac{4}{15} \div 4\frac{2}{3}$

25. $9\frac{1}{3} \div 5\frac{3}{5}$

26. $-12\frac{3}{4} \div \left(-2\frac{5}{6}\right)$

27. $2\frac{4}{9} \div \left(-6\frac{2}{7}\right)$

28. $-11\frac{1}{5} \div 3\frac{1}{9}$