

Introductory Algebra, 3/e

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Chapter 1 - Numbers and Their Properties

Form A-A

PRACTICE TEST

- Write -20 as a fraction with a denominator of 1 .
A) $\frac{-20}{1}$ B) $\frac{1}{-20}$
C) $\frac{-20}{-1}$ D) $\frac{20}{1}$
- Find a fraction equivalent to $\frac{3}{4}$ with a denominator of 16 .
A) $\frac{9}{16}$ B) $\frac{3}{16}$
C) $\frac{12}{16}$ D) $\frac{15}{16}$
- Find a fraction equivalent to $\frac{24}{28}$ with a denominator of 7 .
A) $\frac{5}{7}$ B) $\frac{7}{7}$
C) $\frac{6}{7}$ D) $\frac{4}{7}$
- Reduce to lowest terms: $\frac{40}{48}$
A) $\frac{20}{24}$ B) $\frac{10}{12}$
C) $\frac{5}{24}$ D) $\frac{5}{6}$
- Find: $6\frac{3}{5} \cdot \frac{3}{4}$
A) $\frac{3}{4}$ B) $4\frac{19}{20}$
C) $2\frac{7}{10}$ D) $\frac{9}{20}$

PRACTICE TEST

6. Find: $1\frac{1}{8} \div \frac{13}{16}$

A) $\frac{2}{13}$

B) $1\frac{5}{13}$

C) $\frac{117}{128}$

D) $1\frac{3}{13}$

7. Find: $1\frac{1}{4} + \frac{3}{5}$

A) $1\frac{17}{20}$

B) $\frac{19}{20}$

C) $\frac{2}{5}$

D) $\frac{8}{9}$

8. Find: $3\frac{5}{7} - 2\frac{7}{10}$

A) $1\frac{6}{35}$

B) $1\frac{2}{3}$

C) $1\frac{1}{35}$

D) $1\frac{1}{70}$

9. Write in expanded form: 18.728

A) $10 + 8 + \frac{7}{10} + \frac{8}{100} + \frac{2}{1000}$

B) $18\frac{728}{1000}$

C) $10 + 8 + \frac{728}{1000}$

D) $10 + 8 + \frac{7}{10} + \frac{2}{100} + \frac{8}{1000}$

10. Write as a decimal: $\frac{29}{1000}$

A) 0.0029

B) 0.029

C) 0.29

D) 0.2900

11. Write as a decimal: $\frac{13}{18}$

A) $0.7\bar{2}$

B) $0.007\bar{2}$

C) $0.07\bar{2}$

D) $7.\bar{2}$

PRACTICE TEST

12. Write as a reduced fraction: 0.35

A) $\frac{35}{10}$ B) $\frac{35}{100}$

C) $\frac{7}{20}$ D) $\frac{7}{2}$

13. Write as a reduced fraction: 1.25

A) $\frac{125}{100}$ B) $1\frac{25}{100}$

C) $1\frac{1}{4}$ D) $1\frac{1}{2}$

14. Write as a fraction: 80.6%

A) $\frac{403}{50}$ B) $\frac{.806}{100}$

C) $\frac{403}{500}$ D) $80\frac{3}{5}$

15. Write as a decimal: 36.1%

A) 0.0361 B) 0.361

C) 3.61 D) 36.1

16. Write as a percent: 0.37

A) 370% B) $\frac{37}{100}\%$

C) 37% D) 3.7%

17. Write as a percent: $\frac{3}{4}$

A) 75% B) 34%

C) 0.75% D) 13.33%

PRACTICE TEST

18. Which law is illustrated by the following statement?
 $8 \cdot (6 \cdot 4) = 8 \cdot (4 \cdot 6)$
A) associative law of multiplication
B) commutative law of addition
C) associative law of addition
D) commutative law of multiplication
19. Find: $4 \cdot (5 + 9)$
A) 56 B) 29
C) 180 D) 18
20. Multiply: $9(8x + 1)$
A) $8x + 1$ B) $72x - 9$
C) $72x + 1$ D) $72x + 9$
21. Remove the parentheses and simplify: $(6 + 5x) + 3$
A) $6 + 5x + 3$ B) $11x + 3$
C) $5x + 9$ D) $18 + 15x$
22. Evaluate $^{\circ}\text{C} = \frac{5}{9}(^{\circ}\text{F} - 32)$ when $^{\circ}\text{F} = 59$.
A) 15°C B) 135°C
C) 20°C D) $32\frac{7}{9}^{\circ}\text{C}$
23. A rectangle is 6.4 inches long and 4.3 inches wide. Find its perimeter.
A) 21.4 in. B) 275.2 in.^2
C) 27.52 in.^2 D) 10.7 in.

PRACTICE TEST

24. A circle has a 12-inch radius. Find its circumference. (Use $\pi \approx 3.14$.)
- A) 75.36 in. B) 37.68 in.
C) 37.68 in.² D) 452.16 in.²
25. Evaluate $y \div 3x - z$ for $x = 5$, $y = 15$, $z = 2$.
- A) 1 B) 3
C) -1 D) 7