

Applying Rational Numbers**Multiple Choice: Test****Choose the best answer.**

- Add $36.8 + (-21.3)$.
A -15.06 B 15.5
- Subtract $47.1 - (-33.5)$.
A 80.6 B 38.73
- Mary has \$45 to spend on the school field trip. After paying \$33.50 for the cost of the field trip and \$9.75 for lunch, how much will she have left?
A \$1.75
B \$35.25
C \$43.25
- Multiply 3.9×5.4 .
A 19.5
B 21.06
C 21.6
- Multiply -9.3×4.4 .
A -39.6 B -40.92
- Richard's hourly salary is \$8.50. Last week he worked a 30-hour week. How much did he earn?
A \$255 B \$270
- Divide $34.4 \div 17$.
A 4
B 2.02
C 2.3
- Divide $85.68 \div (-7.2)$.
A -12.14 B -11.9
- Solve $y + 7.2 = -8.6$.
A $y = -15.8$
B $y = -1.4$
C $y = 15.8$
- Cynthia orders 27 prints of a photograph she took. It costs her a total of \$242.73. Which equation can be used to find how much each print cost?
A $\frac{c}{27} = 242.73$
B $27c = 242.73$
C $c = 242.73 \times 27$
- Solve $x + 4.1 = 6.8$.
A 2.7
B 10.9
- Add $\frac{5}{6} + \frac{5}{6}$.
A $\frac{10}{12}$
B $1\frac{4}{12}$
C $1\frac{2}{3}$

CHAPTER

Applying Rational Numbers**3****Multiple Choice: Test, continued**

13. Subtract $\frac{7}{8} - \frac{1}{4}$.

A $\frac{5}{8}$

B $\frac{9}{8}$

C $\frac{5}{4}$

14. Multiply $\frac{2}{3} \cdot \frac{4}{5}$.

A $\frac{8}{15}$

B $\frac{6}{8}$

C $\frac{12}{10}$

15. Multiply $3\frac{1}{4} \cdot \frac{7}{8}$.

A $3\frac{7}{32}$

B $2\frac{27}{32}$

C $\frac{20}{32}$

16. Karen has $6\frac{1}{2}$ pounds of peanuts.

She is splitting them into $\frac{1}{8}$ pound packages. How many packages can she make?

A $\frac{13}{16}$ packages

B 52 packages

17. Simplify $\frac{1}{6} \div \frac{1}{2}$.

A $\frac{1}{3}$

B $\frac{2}{3}$

18. Solve $x - 1\frac{3}{4} = 2\frac{1}{2}$.

A $x = \frac{1}{4}$

B $x = 3\frac{1}{4}$

C $x = 4\frac{1}{4}$

19. Solve $\frac{2}{3}x = \frac{5}{8}$.

A $x = \frac{15}{16}$

B $x = \frac{8}{15}$

C $x = \frac{5}{12}$

11. $1\frac{4}{5}$

12. $3\frac{17}{20}$

3-6 Problem Solving

2. $\frac{40}{1}$; 40; 5; 8; 1; 8; 8; 8

3. C

4. B

5. C

6. A

3-7 Practice

2. 27

3. 4

4. 12

6. 2

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

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

9. $1\frac{1}{2}$

10. $-\frac{1}{4}$

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

12. $7\frac{1}{2}$

13. $2\frac{6}{7}$

14. 8 bottles

3-7 Problem Solving

2. $\frac{175}{8}$; $\frac{25}{1}$; 175; 25; $\frac{7}{8}$; $\frac{7}{8}$; $\frac{7}{8}$

3. A

4. B

3-8 Practice

1. B

2. B

3. B

4. A

5. C

6. C

8. $d = \frac{7}{10}$

9. $m = 1\frac{1}{9}$

10. $x = 1\frac{1}{4}$

3-8 Problem Solving

2. divide; $1\frac{1}{3}$; $16 \div 1\frac{1}{3}$; 12; 12

3. B

4. B

Chapter 3 Section A Quiz

1. B

2. B

3. A

4. C

5. A

6. B

7. B

8. C

Chapter 3 Section B Quiz

1. A

2. A

3. C

4. B

5. B

6. B

7. B

Chapter 3 Multiple Choice Test

1. B

2. A

3. A

4. B
5. B
6. A
7. B
8. B
9. A
10. B
11. A
12. C
13. A
14. A
15. B
16. B
17. A
18. C
19. A

Chapter 4

4-1 Practice

2. 50; 50
3. \$7 per hour
4. 14 points per game
5. 75 calories per ounce
6. \$3.50 per hour
7. 45 miles per hour
8. 0.15; 0.16; 16; 16

4-1 Problem Solving

2. $\frac{\$97.50 \div 6}{6 \div 6} = \frac{\$16.25}{1}$; \$16.25/hour;
 $\frac{\$296}{20}$; 20; $\frac{\$296 \div 20}{20 \div 20} = \frac{\$14.80}{1}$;
 \$14.80/hour; Melanie

3. B
4. C
5. B

4-2 Practice

2. $\frac{2}{3}, \frac{2}{3}$; yes

3. $\frac{4}{5}, \frac{3}{4}$; no
4. $\frac{1}{2}, \frac{1}{2}$; yes
5. $\frac{5}{6}, \frac{8}{9}$; no
6. $\frac{2}{5}, \frac{2}{5}$; yes
7. $\frac{1}{3}, \frac{1}{3}$; yes
8. $\frac{8}{12}, \frac{7}{12}$; no
9. $\frac{3}{4}, \frac{3}{4}$; yes

Answers may vary.

Possible answers given.

11. $\frac{3}{4} = \frac{6}{8}$
12. $\frac{5}{8} = \frac{25}{40}$
13. $\frac{4}{6} = \frac{2}{3}$
14. $\frac{1}{7} = \frac{5}{35}$
15. $\frac{10}{25} = \frac{2}{5}$

4-2 Problem Solving

2. 5; 15; 15; $\frac{5}{8}$; are; equivalent
3. B
4. C
5. C
6. B

4-3 Practice

2. $9a$ and 42
3. 50 and $8b$
5. $z = 5$
6. $s = 6$