

Answers

Chapter 5

5.1 Daily Skills Practice

1. 400

5.1 Vocabulary Practice

1. *Sample answer:* a number with one or more digits to the right of the decimal point; 0.14

5.1 Prerequisite Skills Practice

1. 3,000 2. 1,400,000

5.1 Extra Practice

1. 35.02 2. 0.342 3. 84 4. 2.692

5. 320 6. 0.184 7. 0.006 8. 57,000

9. 4.523 10. 124,180 11. 46.03 12. 0.584

13. *Sample answer:* To find 9.6×10^2 , move the decimal point 2 places to the right: 960; To find 9.6×0.1 , move the decimal point 1 place to the left: 0.96.

14. 30.453

15. 220.77 pounds

16. about 4.5 tons

5.1 Reteach

1. 7,300 2. 0.081

5.1 Enrichment and Extension

1. 10^3 2. 10^3 3. 0.01 4. 0.01

5. 10^5 6. 10^2 7. 0.001 8. 0.0001

5.2 Daily Skills Practice

1. 5.834; $5 \times 1 + 8 \times \frac{1}{10} + 3 \times \frac{1}{100} + 4 \times \frac{1}{1,000}$

5.2 Vocabulary Practice

1. *Sample answer:* a symbol used to separate the ones place and the tenths place in numbers, or the whole dollars from the cents in money

41.9
↑
decimal point

5.2 Prerequisite Skills Practice

1. *Sample answer:* 1,800 2. *Sample answer:* 1,400

5.2 Extra Practice

1–9. *Sample answers* are given.

1. 25 2. 36

3. 16 4. 800

5. 75 6. 800

7. 12 8. 4,000

9. 180 miles

10. 20×70 ; 25×75 11. 50×100 ; 50×90

12. *Sample answer:* rounding; $4 \times 200 = 800$

13. no; *Sample answer:* An estimate is $1 \times 300 = 300$

14. *Sample answer:* \$1.30

15. *Sample answer:* 57 miles

5.2 Reteach

1. *Sample answer:* 4,500

2. *Sample answer:* 90

5.2 Enrichment and Extension

1. *Sample answer:* $3 \times 20 = 60$; overestimate because each estimated factor was greater than the original

2. *Sample answer:* $70 \times 60 = 4,200$; underestimate because each estimated factor was less than the original

3. *Sample answer:* $20 \times 70 = 1,400$; overestimate because each estimated factor was greater than the original

4. *Sample answer:* $30 \times 5 = 150$; underestimate because each estimated factor was less than the original

5.3 Daily Skills Practice

1. 10^2

5.3 Vocabulary Practice

1. *Sample answer:* one of 10 equal parts of a whole; $\frac{1}{10}$

5.3 Prerequisite Skills Practice

1. 1.21 2. 0.88

5.3 Extra Practice

1. Check students' work; 0.9

2. Check students' work; 1.04

3. Check students' work; 1.11

4. Check students' work; 1.5

5. Check students' work; 0.4

6. Check students' work; 1.35

7. Check students' work; 0.54

Answers

8. Check students' work; 1.05
9. 2.70 square meters; $1.35 + 1.35 = 2.7$
10. *Sample answer:* $3 \times 0.34 = 1.02$
11. 0.12; *Sample answer:* The new product is 0.012.
12. \$21.56 13. 0.9 pounds

5.3 Reteach

1. Check students' work; 0.92
2. Check students' work; 1.28

5.3 Enrichment and Extension

1. Check students' work; 1.8
2. Check students' work; 2.4
3. Check students' work; 0.96
4. Check students' work; 1.8

5.4 Daily Skills Practice

1. $(59 + 63) \times 2$; 2

5.4 Vocabulary Practice

1. *Sample answer:* the first place to the right of the decimal point; in 1.23, 2 is in the tenths place

5.4 Prerequisite Skills Practice

1. 25,000 2. 5,600

5.4 Extra Practice

1. 27.6 2. 1.28 3. 130.2
4. 36 5. 128.16 6. 219.45
7. 3.28 8. 13.5 9. 43.86
10. 14.1 11. 13.8 grams
12. They are both correct; $\frac{1}{10} = \frac{10}{100}$
13. The decimal point in the answer moves 1 place to the left as the decimal point in one of the factors moves 1 place to the left; 102.5, 10.25
14. no; The answer should be 5.16. Your friend forgot to put the decimal point in the answer.
15. 32.25 pounds
16. 6.25 square inches; 56.25 square inches

5.4 Reteach

1. 28.8 2. 21.87

5.4 Enrichment and Extension

1. 21.2 2. 6.88 3. 28.5
4. 35.44 5. 11.2 6. 41.7
7. 30.3 8. 23.28 9. 34.8
10. 11.7

5.5 Daily Skills Practice

1. 6.5

5.5 Vocabulary Practice

1. *Sample answer:* one out of 100 equal parts; 0.01 is 1 hundredth

5.5 Prerequisite Skills Practice

1. 55,640 2. 50,654

5.5 Extra Practice

1. Check students' work; 0.56
2. Check students' work; 0.12
3. Check students' work; 0.54
4. Check students' work; 1.12
5. Check students' work; 1.08
6. Check students' work; 1.53
7. 0.75 gram
8. *Sample answer:* 0.9 of 0.9 will be less than 0.9 because you multiplied by a number less than 1. So, the product is less than each factor.
9. no; The product is 0.16 because the 16 squares shaded twice represent the number of hundredths.
10. *Sample answer:* $0.7 \times 0.5 = 0.35$

11. 0.75 cup

12. \$9.36

5.5 Reteach

1. Check students' work; 0.24
2. Check students' work; 0.91

5.5 Enrichment and Extension

1. Check students' work; 1.43
2. Check students' work; 1.56
3. Check students' work; 1.95
4. Check students' work; 2.24

Answers

5.6 Daily Skills Practice

1. 99; c.

5.6 Vocabulary Practice

1. *Sample answer:* the second place to the right of the decimal point; In 1.23, 3 is in the hundredths place.

5.6 Prerequisite Skills Practice

1. 1,836 2. 1,704

5.6 Extra Practice

1.

$$\begin{array}{r} 2.6 \\ \times 1.3 \\ \hline 0.18 \\ 0.6 \\ 0.6 \\ 2 \\ \hline \end{array}$$

2.

$$\begin{array}{r} 3.38 \\ 3.4 \\ \times 4.8 \\ \hline 0.32 \\ 2.4 \\ 1.6 \\ 12 \\ \hline 16.32 \end{array}$$

3.

$$\begin{array}{r} 5.2 \\ \times 4.7 \\ \hline 0.14 \\ 3.5 \\ 0.8 \\ 20 \\ \hline 24.44 \end{array}$$

4.

$$\begin{array}{r} 4.1 \\ \times 6.5 \\ \hline 0.05 \\ 2.0 \\ 0.6 \\ 24 \\ \hline 26.65 \end{array}$$

5.

$$\begin{array}{r} 8.3 \\ \times 2.6 \\ \hline 0.18 \\ 4.8 \\ 0.6 \\ 16 \\ \hline 21.58 \end{array}$$

6.

$$\begin{array}{r} 2.9 \\ \times 3.7 \\ \hline 0.63 \\ 1.4 \\ 2.7 \\ 6 \\ \hline 10.73 \end{array}$$

7. 15.84

8. 49.92

9. 24.3

10. 52.92

11. 19.98

12. 6.72

13. 178.92

14. 332.99

15. 1.256

16. *Sample answer:* Multiply the tenths by the tenths, multiply the ones by the tenths, multiply the tenths by the ones, and multiply the ones by the ones.

17. 6; 4; 30.72

18. 1.6 meters

19. 57.75 ounces

5.6 Reteach

1.

$$\begin{array}{r} 4.7 \\ \times 2.8 \\ \hline 0.56 \\ 3.2 \\ 1.4 \\ 8 \\ \hline 13.16 \end{array}$$

Answers

$$\begin{array}{r} 2. \quad 6.8 \\ \times 5.3 \\ \hline 0.24 \\ 1.8 \\ 4.0 \\ 30 \\ \hline 36.04 \end{array}$$

$$\begin{array}{r} 3. \quad 9.6 \\ \times 4.1 \\ \hline 0.06 \\ 0.9 \\ 2.4 \\ 36 \\ \hline 36.36 \end{array}$$

5.6 Enrichment and Extension

- 9.0951
- 50.4648
- 7.546
- 26.5708
- 192.896
- 215.712
- 700.652
- 402.084
- 11.8482
- 53.00856

5.7 Daily Skills Practice

- 85.83

5.7 Vocabulary Practice

- Sample answer:* a fraction with a denominator of a power of 10; $0.4 = \frac{4}{10}$

5.7 Prerequisite Skills Practice

- 4.8
- 14.5
- 31.2

5.7 Extra Practice

- 0.96; *Sample answer:* I used multiplication properties.
- 28.52; *Sample answer:* I used place value.
- 0.57; *Sample answer:* I used multiplication properties.
- 36.27; *Sample answer:* I used place value.
- 0.423; *Sample answer:* I used multiplication properties.
- 19.4048; *Sample answer:* I used place value.

7. 1.062; *Sample answer:* I used multiplication properties.

8. 13.84; *Sample answer:* I used multiplication properties.

9. 35.77; *Sample answer:* I used place value.

10. 0.084; *Sample answer:* I used multiplication properties.

11. 182.28; *Sample answer:* I used place value.

12. 1.224; *Sample answer:* I used multiplication properties.

13. 17 milliliters

14. $(4 \times 8) \times (0.1 \times 0.1)$; $(4 \times 0.1) \times (8 \times 0.1)$;
 $(4 \times 8) \times \left(\frac{1}{10} \times \frac{1}{10}\right)$

15. *Sample answer:* She can place the decimal point so that the product is close to the estimate.

16. *Sample answer:* in front of the 7; Multiplying by 0.1 moves the decimal point 1 place to the left.

17. 0.2824 meter

18. Bathroom C

5.7 Reteach

- 15.28; *Sample answer:* I used multiplication properties.
- 0.66; *Sample answer:* I used multiplication properties.
- 139.81; *Sample answer:* I used estimation and place value.

5.7 Enrichment and Extension

- ample answer:* estimate: 2.4; 2.4924
- Sample answer:* estimate: 1; 1.377
- Sample answer:* estimate: 6; 6.7487
- Sample answer:* estimate: 16; 15.246
- Sample answer:* estimate: 4; 5.4821
- Sample answer:* estimate: 24; 25.9624
- Sample answer:* estimate: 8; 7.98504
- Sample answer:* estimate: 3; 3.42944

Answers

5.8 Daily Skills Practice

1. >

5.8 Vocabulary Practice

1. *Sample answer:* represents the sum of a whole number and a fraction; $3\frac{1}{2}$

5.8 Prerequisite Skills Practice

1. 2,100 2. 600 3. 3,200

5.8 Extra Practice

1. 4.47 2. 271.143 3. 4.48 4. 116.325

5. 12.624 6. 171.75 7. 0.444 8. 79.54

9. 88.872 10. 21.68 11. 68.166 12. 12.078

13. 4.564 14. 42.679 15. 0.756

16. 4.2 kilograms

17. *Sample answer:* Both products have the same digits in the same order. The first product has 2 decimal places and the second product has 3 decimal places. So, 24.6×6.84 is the least product.

18. 12.8 grams of fiber

19. 3.3814 grams

5.8 Reteach

1. 15.37 2. 17.072 3. 0.078

5.8 Enrichment and Extension

1. 0.96 2. 0.03 3. 0.288 4. 0.162

5. 0.0168 6. 0.0336 7. 0.00336 8. 0.0006

9. 0.00576 10. 0.0042

5.9 Daily Skills Practice

1. 268

5.9 Vocabulary Practice

1. *Sample answer:* two or more decimals that have the same value; $0.4 = 0.40$

5.9 Prerequisite Skills Practice

1. 65.1 2. 34.4 3. 64.6

5.9 Extra Practice

1. Check students' work.

2. Check students' work.

3. \$15.66

4. Check students' work.

5. granola; \$0.15

6. \$148.20 7. \$608 8. \$27.50

9. \$3.40 10. \$19.99

5.9 Reteach

1. \$1.45

5.9 Enrichment and Extension

1. \$593.75 2. \$237.50 3. \$475.00

4. \$712.50 5. \$356.25