

Chapter 3 Review

Short Answer

1. Mr. and Mrs. Nozaki are moving from Riverside to Prarieton. The distance from their old house to their new house is 1234.32 miles. If their car gets 22.2 miles per gallon, how many gallons of gas will they need for the trip?
2. Add. check whether the answer is reasonable.
 $31.9 + 6.9$
3. Add. check whether the answer is reasonable.
 $-20.207 + (-13.591)$
4. Subtract. check whether the answer is reasonable.
 $91.4 - 87.7$
5. Subtract. check whether the answer is reasonable.
 $83.6 - 75.041$
6. Mr. Romito is a bus driver. He drove the Maple Hills Senior Citizen Group on a 2-day motor trip through upstate New York. On the first day, he drove 433.4 miles. On the second day, he drove 347.9 miles. How many more miles did he drive the first day than the second day?
7. Two pounds of corned beef cost \$14.91, and a package of cabbage cost \$3.34. What is the total cost of the corned beef and the cabbage?

8. Multiply.
 $-4.46 \cdot 11$

9. Multiply.
 $15 \cdot 4.5$

10. The average yearly rainfall in Lakeview is 21.55 inches. What is the total amount of rainfall in inches in Lakeview in 5.75 years?

11. Divide.
 $2.76 \div 13.8$

12. Divide. Estimate to check whether the answer is reasonable.
 $76 \div (-3.8)$

13. Solve $p + 12.517 = 1.57$.

14. Solve $f - 0.203 = 6.22$.

15. Solve $\frac{y}{-22.3} = 3.1$.

16. Kristi had \$7.00 when she went to the store. When she got back, she had \$2.39. How much did she spend?

17. Multiply.
 $20 \cdot 1.48$

18. Multiply.
 $-13 \cdot 3.526$

19. Divide.
 $1.44 \div (-0.9)$

20. Divide. Estimate to check whether the answer is reasonable.
 $-54 \div (-1.8)$

21. Solve $f - 6.01 = -18.6$.

22. Solve $d + 14.39 = -24.65$.

23. Solve $b + 13.08 = -0.89$.

24. Solve $\frac{w}{2.6} = 0.5$.

25. Solve $\frac{r}{-13.7} = -2.6$.

26. Solve $-0.74w = -4.292$.

Chapter 3 Quiz Answer Section

SHORT ANSWER

1. ANS:

55.6 gallons

Divide the number of miles traveled by the number of miles per gallon the car gets.

Mr. and Mrs. Nozaki will need 55.6 gallons of gas.

PTS: 1

DIF: Average

REF: Page 161

OBJ: 3-4.3 Application

TOP: 3-4 Dividing Decimals

KEY: decimal | division | integers

2. ANS:

38.8

Line up the decimal points, and then add.

31.9

+6.9

38.8

PTS: 1

DIF: Basic

REF: Page 148

OBJ: 3-2.1 Adding Decimals

TOP: 3-2 Adding and Subtracting Decimals

KEY: addition | decimal

3. ANS:

-33.798

Line up the decimal points, and then add.

-20.207

+(-13.591)

-33.798

PTS: 1

DIF: Basic

REF: Page 148

OBJ: 3-2.1 Adding Decimals

TOP: 3-2 Adding and Subtracting Decimals

KEY: addition | decimal

4. ANS:

3.7

Line up the decimal points, and then subtract. If necessary, use zeros as placeholders and/or regroup.

91.4

-87.7

3.7

PTS: 1

DIF: Average

REF: Page 149

OBJ: 3-2.2 Subtracting Decimals

TOP: 3-2 Adding and Subtracting Decimals

KEY: decimal | subtraction

5. ANS:

8.559

Line up the decimal points, and then subtract. If necessary, use zeros as placeholders and/or regroup.

83.6

-75.041

8.559

PTS: 1

DIF: Average

REF: Page 149

OBJ: 3-2.2 Subtracting Decimals

TOP: 3-2 Adding and Subtracting Decimals

KEY: decimal | subtraction

6. ANS:

85.5 miles

Line up the decimal points, and then subtract. If necessary, regroup.

433.4

-347.9

85.5

Mr. Romito drove 85.5 miles more miles on the first day than on the second day.

PTS: 1

DIF: Average

REF: Page 149

OBJ: 3-2.3 Application

TOP: 3-2 Adding and Subtracting Decimals

KEY: addition | decimal | subtraction

7. ANS:

\$18.25

Line up the decimal points, and then add.

14.91

+3.34

18.25

The corned beef and the cabbage cost \$18.25.

PTS: 1

DIF: Average

REF: Page 149

OBJ: 3-2.3 Application

TOP: 3-2 Adding and Subtracting Decimals

KEY: addition | decimal | subtraction

8. ANS:

-49.06

Multiply the numbers. The product should have the same number of decimal places as the sum of the decimal places in the factors.

PTS: 1

DIF: Basic

REF: Page 154

OBJ: 3-3.1 Multiplying Integers by Decimals

TOP: 3-3 Multiplying Decimals

KEY: decimal | integers | multiplication

9. ANS:

67.5

Multiply the numbers. The product should have the same number of decimal places as the sum of the decimal places in the factors.

PTS: 1 DIF: Basic REF: Page 154

OBJ: 3-3.1 Multiplying Integers by Decimals

TOP: 3-3 Multiplying Decimals

KEY: decimal | integers | multiplication

10. ANS:

123.9125 inches

Multiply the average yearly rainfall by the number of years. The product should have the same number of decimal places as the sum of the decimal places in the factors.

The total amount of rainfall in Lakeview in 5.75 years is 123.9125 inches.

PTS: 1 DIF: Average REF: Page 155 OBJ: 3-3.3 Application

TOP: 3-3 Multiplying Decimals

KEY: decimal | multiplication

11. ANS:

0.2

Multiply both numbers by the least power of 10 that will make the divisor an integer. Divide as with whole numbers. Place the decimal point in the quotient directly above the decimal point in the dividend.

PTS: 1 DIF: Basic REF: Page 160

OBJ: 3-4.1 Dividing Decimals by Decimals

TOP: 3-4 Dividing Decimals

KEY: decimal | division

12. ANS:

-20

Multiply both numbers by the least power of ten that will make the divisor an integer. Divide as with whole numbers. Place the decimal point in the quotient directly above the decimal point in the dividend.

PTS: 1 DIF: Average REF: Page 161

OBJ: 3-4.2 Dividing Integers by Decimals

TOP: 3-4 Dividing Decimals

KEY: decimal | division | integers

13. ANS:

$$p = -10.947$$

$$p + 12.517 = 1.57$$

$$p + 12.517 - 12.517 = 1.57 - 12.517 \quad \text{Subtract to isolate } p.$$

$$p = -10.947$$

PTS: 1 DIF: Basic REF: Page 164

OBJ: 3-5.1 Solving Equations by Adding or Subtracting

TOP: 3-5 Solving Equations Containing Decimals

KEY: addition | decimal | equation | solving | subtraction

14. ANS:

$$f = 6.423$$

$$f - 0.203 = 6.22$$

$$f - 0.203 + 0.203 = 6.22 + 0.203 \quad \text{Add to isolate } f.$$

$$f = 6.423$$

PTS: 1 DIF: Basic REF: Page 164

OBJ: 3-5.1 Solving Equations by Adding or Subtracting

TOP: 3-5 Solving Equations Containing Decimals

KEY: addition | decimal | equation | solving | subtraction

15. ANS:

$$y = -69.13$$

$$\frac{y}{-22.3} = 3.1$$

$$(-22.3) \frac{y}{-22.3} = 3.1(-22.3) \quad \text{Multiply to isolate } y.$$

$$y = -69.13$$

PTS: 1 DIF: Average REF: Page 164

OBJ: 3-5.2 Solving Equations by Multiplying or Dividing

TOP: 3-5 Solving Equations Containing Decimals

KEY: decimal | division | equation | multiplication | solving

16. ANS:

\$4.61

initial amount	-	amount spent	=	amount remaining
7.00	-	x	=	2.39

$$7.00 - x = 2.39$$

$$7.00 - x - 7.00 = 2.39 - 7.00 \quad \text{Subtract to isolate } x.$$

$$-x = -4.61$$

$$x = 4.61$$

Kristi spent \$4.61.

PTS: 1 DIF: Average REF: Page 165 OBJ: 3-5.3 Problem-Solving Application

TOP: 3-5 Solving Equations Containing Decimals

KEY: decimal | equation | multiplication | solving | subtraction

17. ANS:

29.6

Multiply the numbers. The product should have the same number of decimal places as the sum of the decimal places in the factors.

PTS: 1 DIF: Basic REF: Page 154

OBJ: 3-3.1 Multiplying Integers by Decimals

TOP: 3-3 Multiplying Decimals

KEY: decimal | integers | multiplication

18. ANS:
-45.838
Multiply the numbers. The product should have the same number of decimal places as the sum of the decimal places in the factors.

PTS: 1 DIF: Basic REF: Page 154
OBJ: 3-3.1 Multiplying Integers by Decimals TOP: 3-3 Multiplying Decimals
KEY: decimal | integers | multiplication

19. ANS:
-1.6
Multiply both numbers by the least power of 10 that will make the divisor an integer. Divide as with whole numbers. Place the decimal point in the quotient directly above the decimal point in the dividend.

PTS: 1 DIF: Basic REF: Page 160
OBJ: 3-4.1 Dividing Decimals by Decimals TOP: 3-4 Dividing Decimals
KEY: decimal | division

20. ANS:
30
Multiply both numbers by the least power of ten that will make the divisor an integer. Divide as with whole numbers. Place the decimal point in the quotient directly above the decimal point in the dividend.

PTS: 1 DIF: Average REF: Page 161
OBJ: 3-4.2 Dividing Integers by Decimals TOP: 3-4 Dividing Decimals
KEY: decimal | division | integers

21. ANS:
 $f = -12.59$
 $f - 6.01 = -18.6$
 $f - 6.01 + 6.01 = -18.6 + 6.01$ Add to isolate f .
 $f = -12.59$

PTS: 1 DIF: Basic REF: Page 164
OBJ: 3-5.1 Solving Equations by Adding or Subtracting
TOP: 3-5 Solving Equations Containing Decimals
KEY: addition | decimal | equation | solving | subtraction

22. ANS:
 $d = -39.04$
 $d + 14.39 = -24.65$
 $d + 14.39 - 14.39 = -24.65 - 14.39$ Subtract to isolate d .
 $d = -39.04$

PTS: 1 DIF: Basic REF: Page 164
OBJ: 3-5.1 Solving Equations by Adding or Subtracting
TOP: 3-5 Solving Equations Containing Decimals
KEY: addition | decimal | equation | solving | subtraction

23. ANS:

$$b = -13.97$$

$$b + 13.08 = -0.89$$

$$b + 13.08 - 13.08 = -0.89 - 13.08 \quad \text{Subtract to isolate } b.$$

$$b = -13.97$$

PTS: 1 DIF: Basic REF: Page 164

OBJ: 3-5.1 Solving Equations by Adding or Subtracting

TOP: 3-5 Solving Equations Containing Decimals

KEY: addition | decimal | equation | solving | subtraction

24. ANS:

$$w = 1.3$$

$$\frac{w}{2.6} = 0.5$$

$$(2.6)\frac{w}{2.6} = 0.5(2.6) \quad \text{Multiply to isolate } w.$$

$$w = 1.3$$

PTS: 1 DIF: Average REF: Page 164

OBJ: 3-5.2 Solving Equations by Multiplying or Dividing

TOP: 3-5 Solving Equations Containing Decimals

KEY: decimal | division | equation | multiplication | solving

25. ANS:

$$r = 35.62$$

$$\frac{r}{-13.7} = -2.6$$

$$(-13.7)\frac{r}{-13.7} = -2.6(-13.7) \quad \text{Multiply to isolate } r.$$

$$r = 35.62$$

PTS: 1 DIF: Average REF: Page 164

OBJ: 3-5.2 Solving Equations by Multiplying or Dividing

TOP: 3-5 Solving Equations Containing Decimals

KEY: decimal | division | equation | multiplication | solving

26. ANS:

$$w = 5.8$$

$$\frac{-0.74w}{-0.74} = \frac{-4.292}{-0.74}$$

Divide to isolate w .

$$w = 5.8$$

PTS: 1 DIF: Average REF: Page 164

OBJ: 3-5.2 Solving Equations by Multiplying or Dividing

TOP: 3-5 Solving Equations Containing Decimals

KEY: decimal | division | equation | multiplication | solving