

# Answers to Course 2 Unit 1 Practice

## LESSON 1-1

1. a.  $-\$33$
- b. 8; 9 is also a reasonable estimate
- c. 9

2. a. 52.929
- b. 8.287
- c. 7.943
- d. 16.005
- e. 52.143

3. a. Answers will vary.

School Supplies

Item	Cost	Estimate	Items Liam will Need
Binder	5 for \$15	\$3	
Dividers	\$1.99	\$2	
Filler paper	\$6.29	\$6	
Book bag	\$37.49	\$37	
Calculator (scientific)	\$12.40	\$12	
Highlighter	\$4.99	\$5	
Index cards	\$2	\$2	
Jump drive	\$6.99	\$7	
Pencils (box of 12)	\$1.49	\$1	
Pens (box of 12)	\$1.69	\$2	
Post it flags	\$5.49	\$5	
Protractor	\$1.19	\$1	
Ruler	\$2.49	\$2	
Water bottle	\$12.50	\$13	
Total		Cost of Liam's Items	

- b. Answers will vary.
- c. Check student's answers.
4. Oriana is not correct; Oriana did not align the digits on the decimal point.
5. A

## LESSON 1-2

6. a. 0.6
- b. 75
- c. 45.2
- d. 28.56
- e. 0.36
- f. 100
7. Since  $2 \times 10 = 20$ , the product should be a little more than 20; 20.5
8. B
9. 7 days
10. \$16.88

### LESSON 1-3

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

b.  $4\frac{7}{8}$

c.  $22\frac{2}{3}$

d.  $1\frac{1}{4}$

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

f.  $16\frac{1}{2}$

g. 20

h.  $2\frac{3}{5}$

12. First, change the mixed number to a fraction. Next multiply this fraction by the reciprocal of the second fraction. Then, simplify the product if possible.

13. A

14.  $\frac{3}{8}$ ; 

15. 20 pieces

### LESSON 1-4

16. a. 3.625; terminating

b.  $4.\bar{6}$ ; repeating

c. 8.4; terminating

d. 10.35; terminating

e.  $5.\bar{7}$ ; repeating

f.  $12.\bar{27}$ ; repeating

17. a.  $<$

b.  $>$

c.  $<$

d.  $=$

e.  $>$

18.  $2\frac{1}{3}, 2\frac{3}{8}, 2\frac{3}{5}, 2.65, 2\frac{2}{3}$

19. C

20.  $0.\overline{67}$  is greater than  $0.67$ .  $0.\overline{67}$  to the ten-thousandth place is  $0.67\overline{67}$ .  $0.67$  to the ten-thousandth place is  $0.6700$ .  $0.67\overline{67}$  is greater than  $0.6700$ .

### LESSON 2-1

21. a.  $-5 + (-3) = -8$

b.  $-6 + 9 = 3$

c.  $4 + (-11) = -7$

d.  $-2 + 5 + (-8) = -5$

22. Sample answer: Since the signs of the addends are the same, find the sum of the absolute values.  $|-8| + |-5| = 13$  Then determine the sign of the sum. Both addends are negative, so the sum is negative.

23. a.  $-7$

b.  $-59$

c. 25

d. 28

e.  $-52$

f. 29

g.  $-28$

h.  $-90$

i.  $-68$

j. 72

24. No; Mr. Allen does not have enough money in his checking account.  $140 + (-169) = -29$ .

25. B

## LESSON 2-2

26. a. 9

b. -7

c. -15

d. 13

e. 0

27. To subtract an integer, add its opposite.

28. B

29. a. -39

b. 6

c. -32

d. 56

e. -36

f. -21

g. -90

h. 91

i. 27

j. -42

30. Sample answer:  $-2 - 6 = -8$ ; the temperature at 5 pm was  $6^{\circ}\text{F}$  and the temperature at midnight was  $-2^{\circ}\text{F}$ .

## LESSON 3-1

31. The sign of the factors determines the sign of the product; positive

32. a. -96

b. -63

c. 45

d. -108

e. 160

f. -1,500

g. -8

h. 52

i. 49

j. -48

33. A

34. a. -6

b. -9

c. -12

d. 15

e. -9

35.  $7(-450) = -3150$

## LESSON 3-2

36. B

37. a. 9

b. -8

c. 12

d. -8

e. -25

f. 6

g. -11

h. -7

i. -19

j. 9

38. a. -4

b. 2

c. 8

d. 7

e. 7

39.  $-5^{\circ}\text{F}$

40. Sample answer: 21 and -3; the difference between 21 and -3 is 24. The quotient of 21 and -3 is -7.

## LESSON 4-1

41.

Number	Whole Number	Integer	Rational Number
$2\frac{3}{5}$			✓
0.00001			✓
0	✓	✓	✓
-1		✓	✓
$-0.\overline{54}$			✓

42. Check students' answers. Sample answers:

a. 2

b. -3

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

43. A rational number can be written as a fraction.

0.38 can be written as  $\frac{38}{100}$ .

44. D

45. Mouse B, Mouse A, Mouse C

## LESSON 4-2

46. a.  $-2\frac{2}{3} + \left(-1\frac{1}{3}\right) = -4$

b.  $-3.25 + 1.5 = -1.75$

47. a. 13.7

b.  $1\frac{9}{10}$

c.  $-2\frac{1}{6}$

d. -76.2

e.  $-10\frac{7}{12}$

f. -60.1

g.  $-15\frac{3}{8}$

h. 17.7

i.  $21\frac{5}{8}$

j. 5

48. a. >

b. <

c. >

d. =

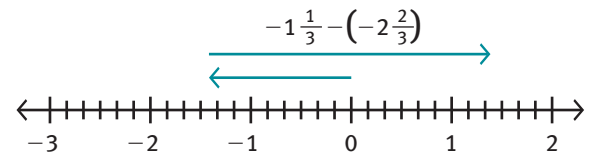
e. <

49. B

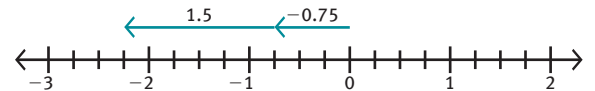
50. a depth of  $15\frac{1}{4}$  feet

## LESSON 4-3

51. a.



b.



52. a.  $-3\frac{5}{6} + 8\frac{2}{3}$

b.  $17.5 + (-23.75)$

c.  $45.7 + 12.3$

d.  $-12\frac{3}{8} + (-7.25)$

e.  $5 + \left(-2\frac{3}{5}\right)$

53. a.  $5\frac{5}{8}$

b.  $-3\frac{5}{6}$

c.  $2\frac{1}{4}$

d.  $-4\frac{1}{2}$

e.  $19.\overline{3}$  or  $19\frac{1}{3}$

f. -2.1

g. 16.95

h. 8.7 or  $8\frac{7}{10}$

i. 43.2 or  $43\frac{1}{5}$

j. 5

54. a. \$16.90  
b. \$8.10  
c. No; she needs an additional \$6.69.
55. D

### LESSON 4-4

56. a. negative  
b. positive  
c. negative  
d. positive  
e. positive

57. a.  $-1.2$   
b.  $-68.4$   
c.  $-300$   
d.  $0.06$   
e.  $0.01$   
f.  $-1\frac{4}{5}$   
g.  $-\frac{1}{2}$   
h.  $-70$   
i.  $-0.027$   
j.  $40,000$
58. 5:12 pm
59. C
60.  $-5.025^{\circ}\text{F}$