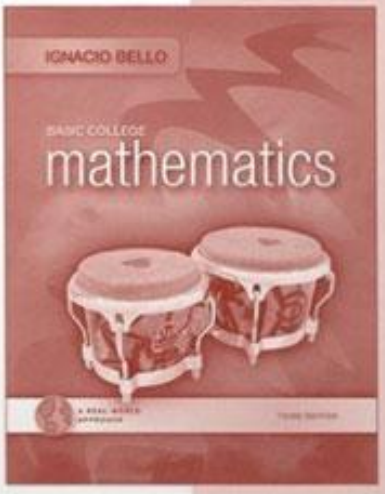
Student's Solutions Manual

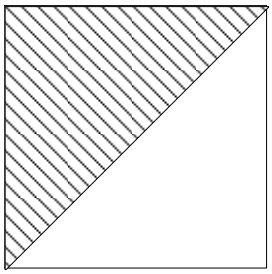
to accompany



Prepared by
Mark Stevenson

Chapter 2

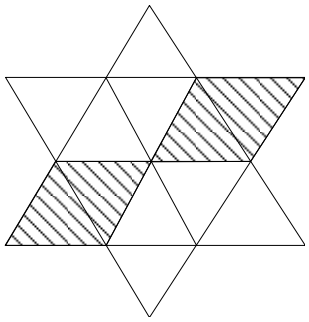
1. What part of the object is shaded?



A) $\frac{1}{2}$ B) $\frac{1}{3}$ C) $\frac{1}{4}$ D) $\frac{1}{5}$

Ans: A
Section: 2.1

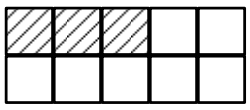
2. What part of the object is shaded?



A) $\frac{1}{6}$ B) $\frac{1}{3}$ C) $\frac{1}{4}$ D) $\frac{1}{5}$

Ans: B
Section: 2.1

3. What part of the object is shaded?



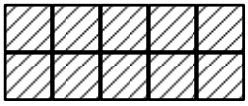
Ans: $\frac{3}{10}$
Section: 2.1

4. What part of the object is shaded?

A) $\frac{1}{2}$ B) $\frac{1}{3}$ C) $\frac{3}{10}$ D) $\frac{3}{5}$

Ans: D
Section: 2.1

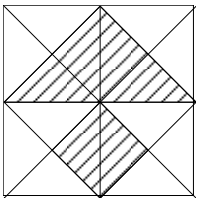
5. What part of the object is shaded?



A) 1 B) 5 C) 10 D) $\frac{1}{2}$

Ans: A
Section: 2.1

6. What part of the object is shaded?



Ans: $\frac{3}{8}$
Section: 2.1

7. Classify the fraction as proper or improper.

$\frac{62}{3}$

Ans: improper
Section: 2.1

8. Classify the fraction as proper or improper.

$\frac{112}{5}$

Ans: improper
Section: 2.1

9. Classify the fraction as proper or improper.
$\frac{8}{14}$
Ans: proper
Section: 2.1

10. Write the fraction as a mixed number.
$\frac{25}{6}$
A) $5\frac{1}{6}$ B) $4\frac{1}{6}$ C) $3\frac{1}{6}$ D) $6\frac{1}{6}$
Ans: B
Section: 2.1

11. Write the fraction as a mixed number.
$\frac{43}{4}$
A) $11\frac{3}{4}$ B) $10\frac{3}{4}$ C) $9\frac{3}{4}$ D) $12\frac{3}{4}$
Ans: B
Section: 2.1

12. Write the mixed number as an improper fraction.
$6\frac{1}{5}$
A) $\frac{32}{5}$ B) $\frac{33}{5}$ C) $\frac{6}{1}$ D) $\frac{31}{5}$
Ans: D
Section: 2.1

13. Write the mixed number as an improper fraction.
$8\frac{3}{5}$
Ans: $\frac{43}{5}$
Section: 2.1

14. Kasean's soccer game lasts for 50 minutes. What reduced fraction of an hour is that?
Ans: $\frac{5}{6}$
Section: 2.1

15. Homer has to work 35 math problems. He has already worked 12 problems. What fraction of the math problems has he finished?

A) $\frac{11}{35}$ B) $\frac{35}{12}$ C) $\frac{23}{35}$ D) $\frac{12}{35}$

Ans: D
Section: 2.1

16. The total number of passengers on the metrorail car is 30. Use this table to find the reduced fraction of passengers departing at the Arlington stop.

Stops	*Passengers Departing*
Vienna/Fairfax	*9*
Carrollton	*3*
Arlington	*4*
GMU	*10*

A) $\frac{3}{10}$ B) $\frac{2}{15}$ C) $\frac{1}{10}$ D) $\frac{1}{3}$

Ans: B
Section: 2.1

17. The total number of passengers on the metrorail car is 30. Use this table to find the reduced fraction of passengers departing at the GMU stop.

Stops	*Passengers Departing*
Vienna/Fairfax	*9*
Carrollton	*3*
Arlington	*10*
GMU	*7*

A) $\frac{7}{30}$ B) $\frac{3}{10}$ C) $\frac{1}{10}$ D) $\frac{1}{3}$

Ans: A
Section: 2.1

18. Find the missing number.

$\frac{3}{4} = \frac{?}{56}$

Ans: 42
Section: 2.2

19. Find the missing number.
$\frac{3}{7} = \frac{9}{?}$
A) 23 B) 22 C) 21 D) 24
Ans: C
Section: 2.2

20. Find the missing number.
$\frac{18}{27} = \frac{?}{3}$
A) 4 B) 3 C) 2 D) 5
Ans: C
Section: 2.2

21. Find the missing number.
$\frac{24}{48} = \frac{1}{?}$
A) 2 B) 3 C) 4 D) 5
Ans: A
Section: 2.2

22. Reduce to lowest terms.
$\frac{13}{52}$
Ans: $\frac{1}{4}$
Section: 2.2

23. Reduce to lowest terms.
$\frac{16}{96}$
A) $\frac{17}{96}$ B) $\frac{1}{6}$ C) 6 D) $\frac{16}{96}$
Ans: B
Section: 2.2

24. Reduce to lowest terms.
$\frac{55}{605}$
A) $\frac{56}{605}$ B) $\frac{1}{11}$ C) 11 D) $\frac{55}{605}$
Ans: B
Section: 2.2

25. There are 12 months in a year. What reduced fraction of the year is the months starting with "J"?
A) $\frac{1}{3}$ B) $\frac{1}{4}$ C) $\frac{1}{5}$ D) $\frac{1}{12}$
Ans: B
Section: 2.2

26. Forest Chapel Church had a brunswick stew sale. They sold 47 containers out of the 110 containers they made. What reduced fraction of the total containers did the church sell?
Ans: $\frac{47}{110}$
Section: 2.2

27. The youth soccer league held their awards banquet. Out of the 152 kids that played soccer, 105 kids attended. What reduced fraction of the total players attended the banquet?
A) $\frac{105}{152}$ B) $\frac{152}{105}$ C) $\frac{104}{152}$ D) $\frac{106}{152}$
Ans: A
Section: 2.2

28. Maya's cookie recipe calls for $\frac{4}{3}$ cups of brown sugar. Bart's recipe calls for $\frac{5}{8}$ cups. Which recipe takes more sugar?
A) Maya's B) Bart's
Ans: A
Section: 2.2

29. Multiply, reduce to lowest terms.
$\frac{7}{6} \cdot \frac{8}{9}$
A) $2\frac{1}{27}$ B) $1\frac{1}{27}$ C) $3\frac{1}{27}$ D) $4\frac{1}{27}$
Ans: B
Section: 2.3

30. Multiply, reduce to lowest terms.
$\frac{19}{9} \cdot \frac{4}{8}$
A) $2\frac{1}{18}$ B) $1\frac{1}{18}$ C) $3\frac{1}{18}$ D) $4\frac{1}{18}$
Ans: B
Section: 2.3

31. Multiply, reduce to lowest terms.

$12 \cdot \frac{6}{7}$

Ans: $10\frac{2}{7}$

Section: 2.3

32. Multiply, reduce to lowest terms.

$3\frac{1}{4} \cdot \frac{2}{3}$

A) $5\frac{1}{6}$ B) $4\frac{1}{6}$ C) $3\frac{1}{6}$ D) $2\frac{1}{6}$

Ans: D

Section: 2.3

33. Multiply, reduce to lowest terms.

$\frac{4}{7} \cdot 4\frac{1}{9}$

A) $5\frac{22}{63}$ B) $4\frac{22}{63}$ C) $3\frac{22}{63}$ D) $2\frac{22}{63}$

Ans: D

Section: 2.3

34. Multiply, reduce to lowest terms.

$\left(\frac{6}{7}\right)^2$

Ans: $\frac{36}{49}$

Section: 2.3

35. Multiply, reduce to lowest terms.

$\left(1\frac{1}{2}\right)^2$

A) $2\frac{1}{4}$ B) $3\frac{1}{4}$ C) $4\frac{1}{4}$ D) $5\frac{1}{4}$

Ans: A

Section: 2.3

36. Multiply, reduce answers to lowest terms.

$\frac{9}{3} \times \frac{7}{3} \times \frac{3}{10}$

A) $3\frac{1}{10}$ B) $2\frac{1}{10}$ C) $4\frac{1}{10}$ D) $5\frac{1}{10}$

Ans: B

Section: 2.3

37. Multiply, reduce answers to lowest terms.

$\frac{1}{2} \times 2\frac{2}{3} \times 7$

Ans: $9\frac{1}{3}$

Section: 2.3

38. Multiply, reduce answers to lowest terms.

$\left(\frac{9}{5}\right)^2 \cdot \frac{4}{5}$

A) $5\frac{74}{125}$ B) $4\frac{74}{125}$ C) $2\frac{74}{125}$ D) $3\frac{74}{125}$

Ans: C

Section: 2.3

39. Multiply, reduce answers to lowest terms.

$\left(\frac{5}{2}\right)^3$

A) $18\frac{5}{8}$ B) $17\frac{5}{8}$ C) $15\frac{5}{8}$ D) $16\frac{5}{8}$

Ans: C

Section: 2.3

40. Divide, reduce to lowest terms.

$5 \div \frac{3}{5}$

Ans: $8\frac{1}{3}$

Section: 2.3

41. Divide, reduce to lowest terms.

$\frac{4}{10} \div \frac{3}{11}$

A) $2\frac{7}{15}$ B) $3\frac{7}{15}$ C) $1\frac{7}{15}$ D) $4\frac{7}{15}$

Ans: C

Section: 2.3

42. Divide, reduce to lowest terms.

$5\frac{5}{9} \div \frac{3}{7}$

A) $12\frac{26}{27}$ B) $14\frac{26}{27}$ C) $13\frac{26}{27}$ D) $15\frac{26}{27}$

Ans: A

Section: 2.3

43. Divide, reduce to lowest terms.

$\frac{13}{5} \div 1\frac{1}{3}$

Ans: $1\frac{19}{20}$

Section: 2.3

44. Divide, reduce to lowest terms.

$9\frac{2}{10} \div 9\frac{2}{10}$

A) $1\frac{1}{5}$ B) 0 C) 1 D) 18

Ans: C

Section: 2.3

45. The Young's back yard has an area of $\frac{3}{5}$ acres, and $\frac{6}{9}$ of the land is used for their swimming pool. What area of their yard is used for the pool?

A) $\frac{4}{9}$ acres B) $\frac{2}{5}$ acres C) $\frac{9}{14}$ acres D) $\frac{19}{45}$ acres

Ans: B

Section: 2.3

46. Eighty people were invited to vote in the extension club's elections and $\frac{3}{10}$ of them voted. How many people voted in the elections?
Ans: 24
Section: 2.3

47. Richard has 19 yards of material. How many tote bags can he make if each bag takes $\frac{2}{3}$ yards of material to make?
A) $31\frac{1}{2}$ B) $30\frac{1}{2}$ C) $29\frac{1}{2}$ D) $28\frac{1}{2}$
Ans: D
Section: 2.3

48. Find the LCM of the numbers.
30 and 27
A) 3 B) 90 C) 57 D) 270
Ans: D
Section: 2.4

49. Find the LCM of the numbers.
10, 16, and 2
Ans: 80
Section: 2.4

50. Write the fractions with the LCD as denominator.
$\frac{2}{7}$ and $\frac{32}{35}$
A) $\frac{2}{35}, \frac{32}{35}$ B) $\frac{2}{7}, \frac{32}{7}$ C) $\frac{10}{35}, \frac{32}{35}$ D) $\frac{20}{70}, \frac{64}{70}$
Ans: C
Section: 2.4

51. Write the fractions with the LCD as denominator.
$\frac{1}{6}, \frac{8}{15}$, and $\frac{2}{3}$
Ans: $\frac{5}{30}, \frac{16}{30}, \frac{20}{30}$
Section: 2.4

52. Write the fractions with the LCD as denominator.

$\frac{1}{5}$ and $\frac{1}{3}$

A) $\frac{3}{8}, \frac{5}{8}$ B) $\frac{3}{15}, \frac{5}{15}$ C) $\frac{6}{16}, \frac{10}{16}$ D) $\frac{6}{30}, \frac{10}{30}$

Ans: B
Section: 2.4

53. Write the fractions with the LCD as denominator.

$\frac{1}{12}, \frac{1}{2}$, and $\frac{2}{9}$

A) $\frac{3}{23}, \frac{18}{23}, \frac{8}{23}$ B) $\frac{3}{36}, \frac{18}{36}, \frac{8}{36}$ C) $\frac{6}{46}, \frac{36}{46}, \frac{16}{46}$ D) $\frac{6}{72}, \frac{36}{72}, \frac{16}{72}$

Ans: B
Section: 2.4

54. Find the greater of the two numbers.

$\frac{7}{15}, \frac{14}{15}$

A) $\frac{7}{15}$ B) $\frac{14}{15}$

Ans: B
Section: 2.4

55. Find the greater of the two numbers.

$\frac{3}{11}, \frac{6}{11}$

Ans: $\frac{6}{11}$
Section: 2.4

56. Find the greater of the two numbers.

$\frac{2}{10}, \frac{8}{10}$

A) $\frac{8}{10}$ B) $\frac{2}{10}$

Ans: A
Section: 2.4

57. Fill in the blank with < or > to make the resulting inequality true.

$\frac{1}{5}$ _____ $\frac{1}{2}$

A) < B) >

Ans: A

Section: 2.4

58. Fill in the blank with < or > to make the resulting inequality true.

$3\frac{2}{3}$ _____ $3\frac{2}{5}$

A) > B) <

Ans: A

Section: 2.4

59. Fill in the blank with < or > to make the resulting inequality true.

$\frac{1}{3}$ _____ $\frac{2}{5}$

A) < B) >

Ans: A

Section: 2.4

60. Fill in the blank with < or > to make the resulting inequality true.

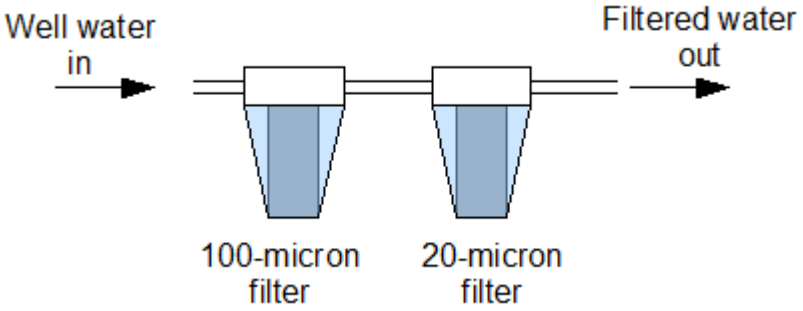
$7\frac{1}{2}$ _____ $7\frac{3}{4}$

A) < B) >

Ans: A

Section: 2.4

61. In order to eliminate unwanted sediments, Suzanne filters her well water through a 100-micron filter to remove large sediment particles and then through a 20-micron filter to eliminate smaller particulates (see figure). The 100-micron filter must be replaced every 7 weeks and the 20-micron filter must be changed every 5 weeks. If Suzanne has just changed both filters, how many weeks will pass before she changes both filters on the same day again?



A) 35 weeks B) 12 weeks C) 7 weeks D) 70 weeks
Ans: A
Section: 2.4

62. Sarah's computer checks for system updates every 10 days, for anti-virus updates every 3 days, and for software updates every 7 days. If her computer checked for all three types of updates today, how many days will pass before it again checks all three types of updates on the same day?
A) 20 days B) 420 days C) 40 days D) 210 days
Ans: D
Section: 2.4

63. Add, reduce to lowest terms.
$\frac{5}{6}+\frac{6}{6}$
Ans: $1\frac{5}{6}$
Section: 2.5

64. Add, reduce to lowest terms.
$\frac{1}{6}+\frac{6}{6}$
A) $3\frac{1}{6}$ B) $1\frac{1}{6}$ C) $2\frac{1}{6}$ D) $4\frac{1}{6}$
Ans: B
Section: 2.5

65. Add, reduce to lowest terms.

$\frac{3}{8}+\frac{5}{8}$

A) $3\frac{0}{1}$ B) $1\frac{0}{1}$ C) $2\frac{0}{1}$ D) $4\frac{0}{1}$

Ans: B

Section: 2.5

66. Find the LCD and add the fractions.

$\frac{1}{70}+\frac{4}{25}$

Ans: $\frac{61}{350}$

Section: 2.5

67. Find the LCD and add the fractions.

$\frac{3}{6}+\frac{3}{7}+\frac{2}{17}$

A) $\frac{4}{357}$ B) $\frac{249}{10}$ C) $\frac{4}{15}$ D) $\frac{249}{238}$

Ans: D

Section: 2.5

68. Subtract, reduce answers to lowest terms.

$\frac{3}{8}-\frac{2}{8}$

A) $\frac{3}{4}$ B) $\frac{1}{9}$ C) $\frac{5}{8}$ D) $\frac{1}{8}$

Ans: D

Section: 2.5

69. Subtract, reduce answers to lowest terms.

$\frac{2}{8}-\frac{1}{7}$

A) $\frac{11}{28}$ B) $\frac{6}{55}$ C) $\frac{3}{28}$ D) $\frac{2}{19}$

Ans: C

Section: 2.5

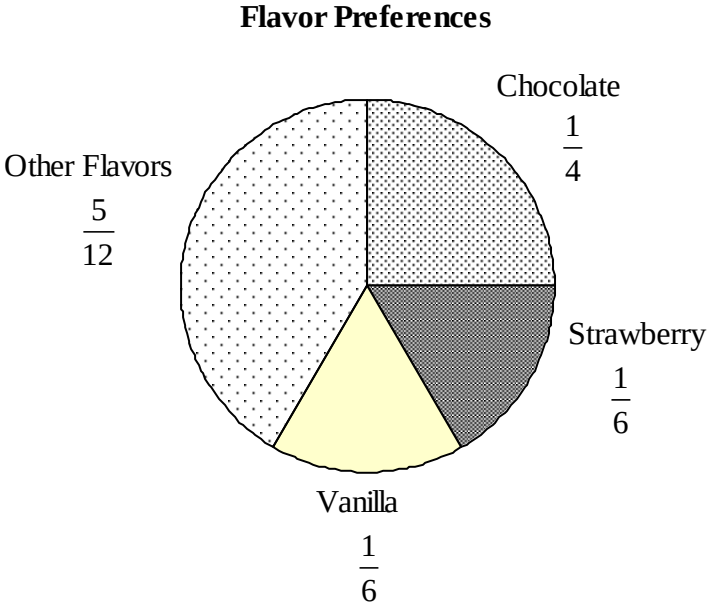
70. Subtract, reduce answers to lowest terms.
$\frac{4}{46} - \frac{2}{14}$
Ans: $\frac{9}{161}$
Section: 2.5

71. Subtract, reduce answers to lowest terms.
$\frac{9}{13} - \frac{8}{13} - \frac{5}{13}$
A) $\frac{1}{13}$ B) $\frac{4}{13}$ C) $\frac{4}{13}$ D) $\frac{3}{13}$
Ans: B
Section: 2.5

72. Andy put down $\frac{4}{16}$ inch thick subflooring. Next, he nailed down $\frac{4}{8}$ inch thick underlay. On top of that, he nailed down $\frac{4}{20}$ inch thick hardwood flooring.How thick was the result?
A) $\frac{19}{20}$ inches B) $\frac{3}{640}$ inches C) $\frac{3}{20}$ inches D) $\frac{9}{20}$ inches
Ans: A
Section: 2.5

73. The Jarvis family bought 3 pounds of fudge at the candy store. Joe ate $\frac{1}{6}$ pounds of the fudge, Rosanna ate $\frac{3}{8}$ pounds of the fudge, and Joanna ate $\frac{1}{2}$ pounds of the fudge. How many pounds of the fudge remained?
A) $\frac{755}{384}$ B) $\frac{377}{192}$ C) $\frac{251}{128}$ D) $\frac{47}{24}$
Ans: D
Section: 2.5

74. The circle graph below shows the ice cream flavor preferences of Mrs. Bentley's second grade class. What reduced fraction of the class prefers either vanilla or strawberry ice cream?



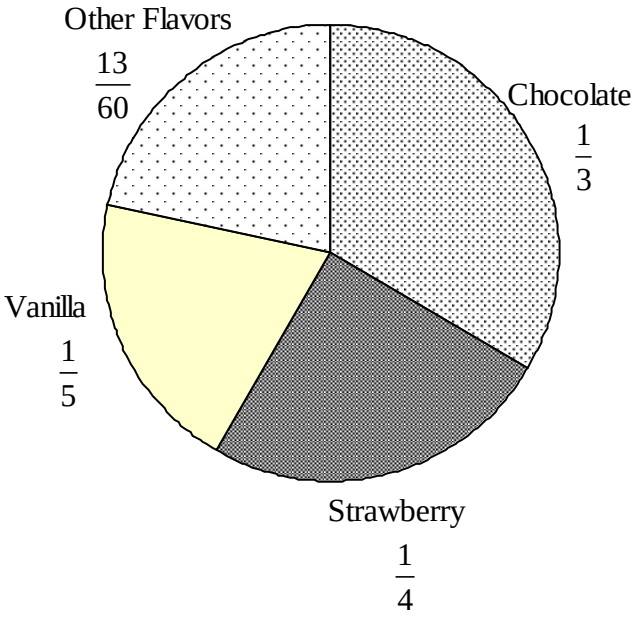
A) $\frac{1}{3}$ B) $\frac{1}{6}$ C) $\frac{5}{12}$ D) $\frac{2}{3}$

Ans: A

Section: 2.5

75. The circle graph below shows the ice cream flavor preferences of Mr. McConnell's fourth grade class. What reduced fraction of the class prefers either chocolate, vanilla, or strawberry ice cream?

Flavor Preferences



A) $\frac{13}{60}$ B) $\frac{1}{12}$ C) $\frac{5}{12}$ D) $\frac{47}{60}$

Ans: D
Section: 2.5

76. Add.

$4\frac{3}{7}+5\frac{2}{7}$

A) $9\frac{3}{7}$ B) $10\frac{5}{7}$ C) $9\frac{5}{7}$ D) $9\frac{2}{7}$

Ans: C
Section: 2.6

77. Add.

$5+\frac{5}{7}$

A) $\frac{12}{7}$ B) $\frac{10}{7}$ C) $5\frac{5}{7}$ D) $5\frac{6}{7}$

Ans: C
Section: 2.6

78. Add.

$2\frac{1}{7}+1\frac{1}{7}$

Ans: $3\frac{2}{7}$

Section: 2.6

79. Add.

$4\frac{1}{9}+1\frac{2}{8}$

A) $5\frac{3}{8}$ B) 5 C) $\frac{193}{36}$ D) $5\frac{13}{36}$

Ans: D

Section: 2.6

80. Subtract.

$5\frac{3}{8}-2\frac{2}{8}$

A) 3 B) $\frac{1}{8}$ C) $3\frac{1}{8}$ D) $3\frac{1}{4}$

Ans: C

Section: 2.6

81. Subtract.

$10\frac{5}{12}-3\frac{3}{5}$

A) $7\frac{49}{60}$ B) 6 C) $\frac{841}{60}$ D) $6\frac{49}{60}$

Ans: D

Section: 2.6

82. Simplify.

$2\frac{1}{18}+7\frac{2}{10}-4\frac{1}{8}$

A) $5\frac{47}{360}$ B) $6\frac{47}{360}$ C) $4\frac{47}{360}$ D) $7\frac{47}{360}$

Ans: A

Section: 2.6

83. Simplify.

$$\begin{array}{rr} & 1\ \frac{2}{16} \\ + & 6\ \frac{3}{18} \\ - & 2\ \frac{2}{8} \\ \hline \end{array}$$

A) $5\frac{1}{24}$ B) $7\frac{1}{24}$ C) $7\frac{1}{3}$ D) $5\frac{3}{4}$

Ans: A

Section: 2.6

84. It took Autumn $4\frac{1}{3}$ hours to rake her back yard and $2\frac{2}{9}$ hours to rake her front yard. How much more time did Autumn spend raking in her back yard?

Ans: $2\frac{1}{9}$ hours

Section: 2.6

85. The Trailblazers Club hiked part of the Appalachian Trail. On Saturday, they hiked $4\frac{3}{10}$ miles. On Sunday, they hiked $3\frac{2}{16}$ miles. How far did they hike altogether?

A) $4\frac{17}{40}$ B) $7\frac{17}{40}$ C) $3\frac{17}{40}$ D) $7\frac{3}{10}$

Ans: B

Section: 2.6

86. Brett's brown bread recipe uses $1\frac{3}{8}$ cups of bread flour, $\frac{1}{3}$ cups of whole wheat flour, and $\frac{3}{4}$ cups of sugar. What is the total number of cups of these ingredients?

A) $2\frac{89}{192}$ B) $3\frac{11}{24}$ C) $4\frac{11}{24}$ D) $2\frac{11}{24}$

Ans: D

Section: 2.6

87. Nan the Nanny brought an apple for snacktime. She gave $\frac{1}{5}$ of the apple to Will and $\frac{1}{6}$ of the apple to Nora. How much of the apple did Nan have left?

A) $\frac{3}{5}$ B) $\frac{17}{30}$ C) $\frac{11}{30}$ D) $\frac{19}{30}$

Ans: D
Section: 2.6

88. Simplify.

$$\frac{1}{2}\bullet\left(\frac{1}{5}\right)^2+\frac{1}{7}$$

A) $\frac{57}{350}$ B) $\frac{17}{70}$ C) $\frac{1}{50}$ D) $\frac{1}{70}$

Ans: A
Section: 2.7

89. Simplify.

$$4+\frac{1}{2}\cdot\frac{1}{2}\cdot\frac{1}{2}-\left(\frac{1}{3}+\frac{1}{3}\right)$$

Ans: $3\frac{11}{24}$
Section: 2.7

90. Simplify.

$$\frac{1}{4}+\frac{1}{2}\cdot\frac{1}{2}+\frac{1}{2}\left(\frac{1}{2}-\frac{1}{2}\right)+\left(\frac{1}{4}+\frac{1}{3}\right)$$

A) $1\frac{37}{384}$ B) $1\frac{7}{64}$ C) $1\frac{17}{192}$ D) $1\frac{1}{12}$

Ans: D
Section: 2.7

91. Simplify.

$$\frac{1}{20}+\frac{1}{10}\cdot\left\{\frac{1}{2}+\frac{1}{4}-\left[\frac{1}{2}\cdot\frac{1}{2}+\frac{1}{2}\right]\right\}$$

A) $\frac{11}{160}$ B) $\frac{1}{20}$ C) $\frac{1}{16}$ D) $\frac{9}{160}$

Ans: B
Section: 2.7

92. The smallest living carnivore is the dwarf weasel. One specimen weighed $1\frac{1}{5}$ ounces and another specimen weighed $2\frac{1}{4}$ ounces. What is the average weight of these two animals?

A) $1\frac{3}{5}$ B) $1\frac{3}{4}$ C) $1\frac{29}{40}$ D) $2\frac{29}{40}$

Ans: C
Section: 2.7

93. Ransom has three lop-eared rabbits for pets: Ralph, Randy, and Rascal. Ralph has ears that measured $5\frac{1}{2}$ inches wide. Randy's ears measured $5\frac{1}{5}$ inches wide. Rascal's ears measured $5\frac{1}{2}$ inches wide. What is the average of the width of Ransom's rabbits' ears?

A) $5\frac{2}{5}$ B) $6\frac{2}{5}$ C) $4\frac{2}{5}$ D) $7\frac{2}{5}$

Ans: A
Section: 2.7

94. Using the table below, find the average number of hours that Larry exercised.

	Larry	*Alvin*
Monday	$3\frac{1}{4}$	$2\frac{1}{2}$
Wednesday	$3\frac{1}{3}$	$2\frac{3}{4}$
Friday	$1\frac{1}{4}$	$1\frac{2}{3}$

Ans: $2\frac{11}{18}$
Section: 2.7

95. Using the table below, find the average number of hours that Larry and Alvin exercised on Monday.

	Larry	*Alvin*
Monday	$2\frac{1}{3}$	$2\frac{1}{2}$
Wednesday	$3\frac{1}{3}$	$2\frac{3}{4}$
Friday	$1\frac{1}{4}$	$1\frac{2}{3}$

A) $2\frac{5}{12}$ B) $3\frac{5}{12}$ C) $3\frac{3}{4}$ D) $1\frac{5}{12}$
Ans: A
Section: 2.7

96. Translate and solve. A number n increases by $\frac{1}{2}$ gives $\frac{3}{8}$. Find n.

A) $n = \frac{5}{48}$ B) $n = -\frac{1}{8}$ C) $n = \frac{3}{16}$ D) $n = \frac{1}{12}$
Ans: B
Section: 2.8

97. Translate and solve. $\frac{3}{5}$ more than a number m is $2\frac{3}{8}$. Find m.

A) $1\frac{4}{5}$ B) $3\frac{31}{40}$ C) $2\frac{31}{40}$ D) $1\frac{31}{40}$
Ans: D
Section: 2.8

98. Translate and solve. $1\frac{1}{4}$ of $2\frac{2}{3}$ is what number?

Ans: $3\frac{1}{3}$
Section: 2.8

99. Mark had a board $24\frac{1}{2}$ inches long which he cut into 11 pieces. How long would the board be if it had 15 pieces of the same thickness?

A) $32\frac{9}{22}$ inches B) $33\frac{9}{22}$ inches C) $35\frac{9}{22}$ inches D) $31\frac{9}{22}$ inches
Ans: B
Section: 2.8

100. Rebekah's recipe for $4\frac{1}{2}$ dozen cookies calls for 5 cups of sugar. How many cups of sugar are needed to make 8 dozen cookies?
Ans: $8\frac{8}{9}$
Section: 2.8

101. If $2\frac{2}{3}$ gallons of milk cost \$8.50, what will $6\frac{1}{3}$ gallons cost?
A) \$20.19 B) \$35.79 C) \$20.29 D) \$21.19
Ans: A
Section: 2.8

102. Meghann earns \$21.00 for 3 hours of work. How much will Meghann earn for 8 hours of work at the same rate of pay?
A) \$56.00 B) \$57.00 C) \$55.00 D) \$58.00
Ans: A
Section: 2.8