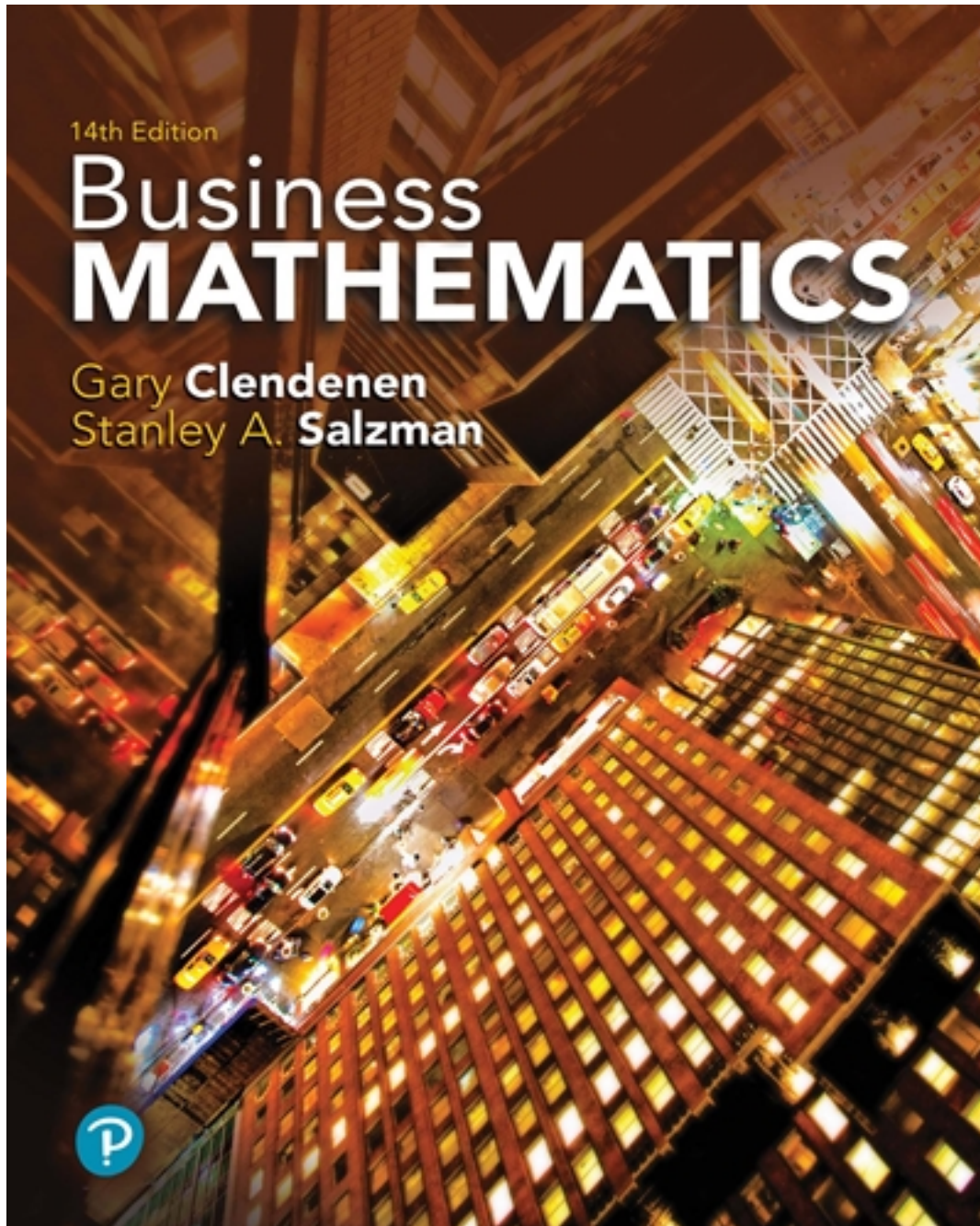


Test Bank for Business Mathematics 14th Edition by Clendenen

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Test Bank

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Write each mixed number as an improper fraction.

1) $6\frac{3}{5}$

A) $\frac{33}{5}$

B) $\frac{34}{5}$

C) $\frac{23}{5}$

D) $\frac{9}{5}$

Answer: A

2) $21\frac{5}{9}$

A) $\frac{65}{3}$

B) $\frac{194}{9}$

C) $\frac{26}{9}$

D) $\frac{38}{3}$

Answer: B

3) $9\frac{6}{11}$

A) $\frac{105}{11}$

B) $\frac{15}{11}$

C) $\frac{65}{11}$

D) $\frac{106}{11}$

Answer: A

4) $8\frac{16}{19}$

A) $\frac{169}{19}$

B) $\frac{24}{19}$

C) $\frac{168}{19}$

D) $\frac{147}{19}$

Answer: C

5) $11\frac{13}{19}$

A) $\frac{162}{19}$

B) $\frac{222}{19}$

C) $\frac{24}{19}$

D) $\frac{223}{19}$

Answer: B

6) $13\frac{7}{12}$

A) $\frac{163}{12}$

B) 27

C) 182

D) $\frac{91}{12}$

Answer: A

Change the improper fraction to a whole or mixed number.

7) $\frac{13}{6}$

A) $2\frac{1}{2}$

B) $3\frac{1}{6}$

C) $2\frac{1}{6}$

D) $1\frac{1}{6}$

Answer: C

8) $\frac{47}{6}$

A) $7\frac{5}{6}$

B) $8\frac{1}{6}$

C) $8\frac{5}{6}$

D) $6\frac{5}{6}$

Answer: A

9) $\frac{82}{37}$

A) $3\frac{8}{37}$

B) $2\frac{8}{37}$

C) $2\frac{10}{37}$

D) $1\frac{8}{37}$

Answer: B

10) $\frac{46}{10}$

A) $4\frac{4}{5}$

B) $5\frac{3}{5}$

C) $4\frac{3}{5}$

D) $3\frac{3}{5}$

Answer: C

11) $\frac{58}{11}$

A) $6\frac{3}{11}$

B) $5\frac{5}{11}$

C) $5\frac{3}{11}$

D) $4\frac{3}{11}$

Answer: C

12) $\frac{76}{4}$

A) 18

B) 19

C) $19\frac{1}{2}$

D) 20

Answer: B

Write the fraction in lowest terms.

13) $\frac{4}{8}$

A) 2

B) $\frac{4}{8}$

C) $\frac{7}{3}$

D) $\frac{1}{2}$

Answer: D

14) $\frac{3}{6}$

A) $\frac{4}{7}$

B) $\frac{5}{2}$

C) 2

D) $\frac{1}{2}$

Answer: D

15) $\frac{14}{62}$

A) $\frac{14}{62}$

B) $\frac{31}{7}$

C) $\frac{61}{13}$

D) $\frac{7}{31}$

Answer: D

16) $\frac{14}{102}$

A) $\frac{7}{51}$

B) $\frac{51}{7}$

C) $\frac{101}{13}$

D) $\frac{15}{103}$

Answer: A

17) $\frac{186}{192}$

A) $\frac{31}{32}$

B) $\frac{187}{193}$

C) $\frac{191}{185}$

D) $\frac{32}{31}$

Answer: A

18) $\frac{34}{850}$

A) 25

B) $\frac{1}{25}$

C) $\frac{283}{11}$

D) $\frac{35}{851}$

Answer: B

19) $\frac{300}{350}$

A) $\frac{6}{7}$

B) $\frac{301}{351}$

C) $\frac{349}{299}$

D) $\frac{7}{6}$

Answer: A

Solve the problem.

- 20) The fineness (purity) of gold is regulated by law and is the same in all parts of the world. The purity is stated in terms of karats. 18-kt gold is 18 parts gold and 6 parts alloy. Write this measure of purity as a fraction in lowest terms.

A) $\frac{1}{3}$

B) $\frac{1}{4}$

C) 3

D) $\frac{3}{4}$

Answer: D

Determine if the number is divisible by 2, 3, 4, 5, 6, 8, 9, and/or 10. If it is not divisible by any of these, then answer "None".

21) 30

A) None

B) 2, 3, 5, 6, 10

C) 2, 3, 5, 6

D) 2, 3, 5, 10

Answer: B

22) 3,816

A) None

B) 2, 3, 6, 8

C) 2, 3, 4, 6, 8, 9

D) 2, 3, 4, 8

Answer: C

23) 97

A) 3, 6

B) 3

C) 3, 5

D) None

Answer: D

24) 899

A) 3, 6

B) 3

C) 3, 5

D) None

Answer: D

Write an equivalent fraction using the given denominator.

25) $\frac{2}{4} = \frac{\quad}{32}$

A) 16

B) 64

C) 2

D) 8

Answer: A

26) $\frac{11}{25} = \frac{\quad}{75}$

A) 66

B) 3

C) 11

D) 33

Answer: D

27) $\frac{25}{12} = \frac{\quad}{36}$

A) 36

B) 3

C) 75

D) 150

Answer: C

28) $\frac{7}{6} = \frac{\quad}{42}$

A) 49

B) 98

C) 7

D) 42

Answer: A

29) $\frac{10}{11} = \frac{\quad}{44}$

A) 44

B) 40

C) 4

D) 80

Answer: B

Find the least common denominator for the given set of denominators.

30) 84, 378

A) 756

B) 2,268

C) 1,512

D) 42

Answer: A

31) 135, 56, 150

A) 7,560

B) 37,800

C) 3,780

D) 1050

Answer: B

32) 24, 54, 3

A) 108

B) 54

C) 216

D) 72

Answer: C

33) 56, 48

A) 672

B) 112

C) 336

D) 168

Answer: C

34) 30, 80, 50

A) 240

B) 400

C) 600

D) 1,200

Answer: D

35) 7, 14, 21, 36

A) 280

B) 252

C) 112

D) 259

Answer: B

36) 6, 8, 10, 12

A) 90

B) 108

C) 60

D) 120

Answer: D

37) 7, 14, 28, 49

A) 49

B) 147

C) 392

D) 196

Answer: D

Add. Write the answer in lowest terms.

38) $\frac{2}{5} + \frac{3}{20}$

A) $\frac{1}{4}$

B) $\frac{11}{20}$

C) $\frac{1}{5}$

D) $\frac{14}{25}$

Answer: B

39) $\frac{3}{5} + \frac{1}{9}$

A) $\frac{11}{15}$

B) $\frac{2}{7}$

C) $\frac{4}{9}$

D) $\frac{32}{45}$

Answer: D

40) $\frac{8}{13} + \frac{1}{12}$

A) $\frac{3}{52}$

B) $\frac{9}{25}$

C) $\frac{109}{25}$

D) $\frac{109}{156}$

Answer: D

41) $\frac{4}{5} + \frac{3}{10}$

A) $3\frac{2}{3}$

B) $1\frac{1}{10}$

C) $\frac{7}{50}$

D) $\frac{7}{15}$

Answer: B

42) $\frac{11}{15} + \frac{1}{2}$

A) $\frac{12}{17}$

B) $1\frac{7}{30}$

C) $\frac{2}{5}$

D) $2\frac{3}{17}$

Answer: B

Add. Write your answer in lowest terms.

43) $\frac{2}{3} + \frac{1}{7} + \frac{4}{5}$

A) $\frac{1}{15}$

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

C) $11\frac{4}{15}$

D) $1\frac{64}{105}$

Answer: D

44) $\frac{3}{4} + \frac{1}{7} + 1$

A) $\frac{1}{350}$

B) $\frac{8}{15}$

C) $1\frac{25}{28}$

D) $353\frac{1}{3}$

Answer: C

45) $\frac{20}{9} + \frac{19}{24} + 1$

A) $\frac{2}{81}$

B) $20\frac{9}{14}$

C) $4\frac{1}{72}$

D) $1\frac{1}{7}$

Answer: C

46)

$$\frac{2}{15}$$

$$\frac{7}{10}$$

$$+ \frac{1}{5}$$

A) $\frac{1}{3}$

B) $\frac{13}{15}$

C) $1\frac{1}{30}$

D) $1\frac{8}{15}$

Answer: C

47)

$$\begin{array}{r} \frac{5}{12} \\ \frac{7}{8} \\ + \frac{5}{6} \\ \hline \end{array}$$

A) $\frac{17}{24}$

B) $2\frac{1}{8}$

C) $2\frac{5}{24}$

D) $1\frac{11}{12}$

Answer: B

Subtract. Write the answer in lowest terms.

48) $\frac{2}{3} - \frac{1}{3}$

A) 3

B) $\frac{1}{3}$

C) $\frac{7}{36}$

D) $\frac{7}{9}$

Answer: B

49) $\frac{7}{9} - \frac{3}{4}$

A) $\frac{2}{9}$

B) 36

C) $\frac{1}{36}$

D) $\frac{1}{72}$

Answer: C

50) $\frac{4}{7} - \frac{2}{13}$

A) $\frac{2}{91}$

B) $\frac{38}{91}$

C) $\frac{91}{38}$

D) $\frac{38}{7}$

Answer: B

51) $\frac{24}{25} - \frac{11}{24}$

A) $\frac{301}{25}$

B) $\frac{600}{301}$

C) $\frac{301}{600}$

D) $\frac{13}{600}$

Answer: C

52) $\frac{1}{8} - \frac{4}{35}$

A) $\frac{3}{8}$

B) $\frac{3}{280}$

C) $\frac{280}{3}$

D) $\frac{1}{1400}$

Answer: B

53)

$$\begin{array}{r} \frac{5}{7} \\ - \frac{1}{2} \\ \hline \end{array}$$

A) $\frac{3}{14}$

B) $\frac{4}{7}$

C) $\frac{4}{9}$

D) $\frac{1}{7}$

Answer: A

54)

$$\begin{array}{r} \frac{4}{5} \\ - \frac{3}{20} \\ \hline \end{array}$$

A) $\frac{1}{20}$

B) $\frac{13}{20}$

C) $\frac{3}{5}$

D) $\frac{7}{10}$

Answer: B

55)

$$\begin{array}{r} \frac{7}{12} \\ - \frac{1}{16} \\ \hline \end{array}$$

A) $\frac{3}{16}$

B) $\frac{1}{6}$

C) $\frac{1}{8}$

D) $\frac{25}{48}$

Answer: D

56)

$$\begin{array}{r} \frac{5}{6} \\ - \frac{1}{3} \\ \hline \end{array}$$

A) $\frac{3}{4}$

B) $1\frac{1}{6}$

C) $\frac{1}{2}$

D) 2

Answer: C

Solve the problem.

57) Ellen is knitting a scarf with one $3\frac{3}{4}$ -inch blue stripe, one $2\frac{3}{5}$ -inch green stripe, and one $2\frac{2}{9}$ -inch white stripe.

How wide is the scarf?

A) $\frac{3}{8}$ in.

B) $\frac{180}{1543}$ in.

C) $8\frac{103}{180}$ in.

D) $2\frac{2}{3}$ in.

Answer: C

- 58) While shopping for a party, June bought 6 pounds of hamburger, $2\frac{4}{7}$ pounds of chicken, and 4 pounds of ham.

How much meat did she buy?

- A) $\frac{7}{88}$ lb B) $3\frac{7}{13}$ lb C) $\frac{13}{46}$ lb D) $12\frac{4}{7}$ lb

Answer: D

- 59) A laminated lab bench has $3\frac{3}{4}$ inches of plywood, $1\frac{1}{7}$ inches of pressed board, and $\frac{4}{11}$ inch of formica. What is the thickness of the lab bench?

- A) $\frac{22}{27}$ in. B) $\frac{308}{1619}$ in. C) $1\frac{5}{22}$ in. D) $5\frac{79}{308}$ in.

Answer: D

- 60) To obtain a certain shade of paint, Peter mixed $6\frac{1}{2}$ gallons of white paint with $2\frac{1}{4}$ gallons of brown and $2\frac{3}{4}$ gallons of blue paint. How much paint did he have?

- A) $\frac{10}{33}$ gal B) $\frac{2}{23}$ gal C) $3\frac{3}{10}$ gal D) $11\frac{1}{2}$ gal

Answer: D

- 61) Jeff studied math for 4 hours, history for $2\frac{1}{6}$ hours, and physics for $3\frac{1}{3}$ hours. How long did he study?

- A) 3 hr B) $9\frac{1}{2}$ hr C) $\frac{2}{19}$ hr D) $\frac{1}{3}$ hr

Answer: B

- 62) Peter must practice the piano $8\frac{1}{2}$ hours per week. He has already practiced $2\frac{3}{4}$ hours. How many more hours does he need to practice?

- A) $5\frac{3}{4}$ hr B) 1 hr C) $\frac{3}{4}$ hr D) $7\frac{2}{3}$ hr

Answer: A

- 63) A nail $2\frac{1}{2}$ inches long is driven into a board $1\frac{1}{3}$ inches thick. How much of the nail protrudes from the other side of the board?

- A) $\frac{1}{12}$ in. B) $1\frac{1}{6}$ in. C) $\frac{1}{5}$ in. D) $2\frac{4}{5}$ in.

Answer: B

- 64) Jake wants to work $2\frac{1}{4}$ hours at his part-time job this week. He has already worked $1\frac{3}{5}$ hours. How many more hours does he need to work?

- A) $\frac{1}{9}$ hr B) $1\frac{4}{9}$ hr C) $\frac{1}{20}$ hr D) $\frac{13}{20}$ hr

Answer: D

65) There were $6\frac{5}{6}$ yards of fabric on a bolt. After a customer bought $5\frac{1}{2}$ yards of fabric, how many yards were left?

A) $1\frac{1}{3}$ yd

B) 2 yd

C) $2\frac{1}{2}$ yd

D) $3\frac{3}{4}$ yd

Answer: A

66) A tank contains $1\frac{4}{5}$ gallons of water. Its capacity is $6\frac{1}{2}$ gallons. How much more water is needed to fill it?

A) $6\frac{5}{7}$ gal

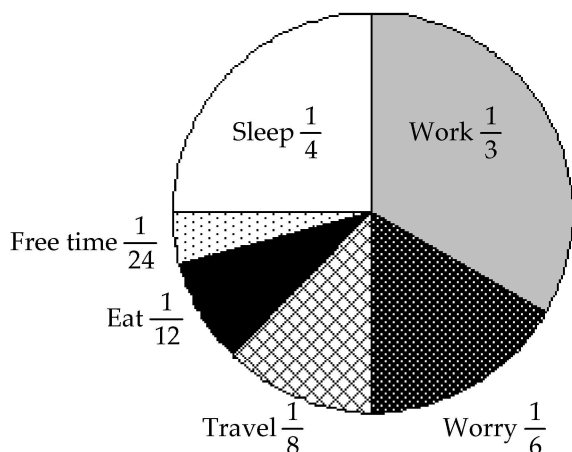
B) $\frac{2}{5}$ gal

C) $\frac{4}{7}$ gal

D) $4\frac{7}{10}$ gal

Answer: D

The graph represents the 24-hour day of a small-business owner.



67) What fraction of the day is spent in work, worry, and travel?

A) $\frac{5}{8}$

B) $\frac{7}{12}$

C) $\frac{2}{3}$

D) $\frac{1}{2}$

Answer: A

68) How many hours of the day are spent in work, worry, and travel?

A) 15 hours

B) 16 hours

C) 14 hours

D) 12 hours

Answer: A

69) What activity takes the most time? How many hours?

A) Work, 10 hours

B) Work, 12 hours

C) Work, 8 hours

D) Sleep, 8 hours

Answer: C

70) What fraction of the day is spent in sleeping, eating, and free time?

A) $\frac{7}{24}$

B) $\frac{3}{8}$

C) $\frac{1}{2}$

D) $\frac{5}{12}$

Answer: B

71) How many hours of the day are given to free time and eating?

A) 1 hour

B) 3 hours

C) 2 hours

D) 4 hours

Answer: B

72) If "worry" is another form of work, what fraction of the day is spent working?

A) $\frac{1}{3}$

B) $\frac{7}{12}$

C) $\frac{1}{2}$

D) $\frac{2}{3}$

Answer: C

73) How many hours of the day are spent in travel and free time?

A) 6 hours

B) 5 hours

C) 3 hours

D) 4 hours

Answer: D

74) What fraction of the day is spent in free time and travel?

A) $\frac{1}{4}$

B) $\frac{2}{9}$

C) $\frac{1}{12}$

D) $\frac{1}{6}$

Answer: D

Add. Write the answer in lowest terms.

75)

$$\begin{array}{r} 8\frac{1}{3} \\ + 20\frac{4}{9} \\ \hline \end{array}$$

A) $27\frac{7}{9}$

B) $29\frac{7}{9}$

C) $28\frac{7}{9}$

D) $8\frac{7}{9}$

Answer: C

76)

$$\begin{array}{r} 17\frac{2}{7} \\ + 8\frac{4}{7} \\ \hline \end{array}$$

A) $17\frac{6}{7}$

B) $24\frac{6}{7}$

C) $25\frac{6}{7}$

D) $26\frac{6}{7}$

Answer: C

77)

$$\begin{array}{r} 4\frac{5}{6} \\ + 1\frac{1}{6} \\ \hline \end{array}$$

A) 6

B) 5

C) $1\frac{1}{6}$

D) $6\frac{1}{6}$

Answer: A

78)

$$\begin{array}{r} 8\frac{3}{8} \\ + 7\frac{1}{4} \\ \hline \end{array}$$

A) 3

B) $15\frac{5}{8}$

C) 8

D) $41\frac{2}{3}$

Answer: B

79)

$$\begin{array}{r} 31\frac{1}{3} \\ + 19\frac{2}{5} \\ \hline \end{array}$$

A) $95\frac{1}{8}$

B) $50\frac{11}{15}$

C) $23\frac{7}{8}$

D) $12\frac{11}{15}$

Answer: B

80)

$$\begin{array}{r} 15\frac{6}{7} \\ 14\frac{2}{7} \\ + 15\frac{4}{7} \\ \hline \end{array}$$

A) $45\frac{5}{7}$

B) $44\frac{5}{7}$

C) 45

D) $46\frac{5}{7}$

Answer: A

81)

$$\begin{array}{r} 10\frac{8}{9} \\ 17\frac{8}{9} \\ + \frac{5}{9} \\ \hline \end{array}$$

A) $29\frac{1}{3}$

B) $29\frac{1}{2}$

C) $30\frac{1}{3}$

D) $28\frac{1}{3}$

Answer: A

Subtract. Write the answer in lowest terms.

82)

$$\begin{array}{r} 4\frac{2}{3} \\ - 2\frac{1}{5} \\ \hline \end{array}$$

A) $2\frac{7}{15}$

B) $\frac{15}{37}$

C) $\frac{1}{5}$

D) $12\frac{1}{3}$

Answer: A

83)

$$\begin{array}{r} 16\frac{2}{7} \\ - 7\frac{6}{7} \\ \hline \end{array}$$

A) $8\frac{2}{7}$

B) $23\frac{3}{7}$

C) $8\frac{3}{7}$

D) $22\frac{3}{7}$

Answer: C

84)

$$\begin{array}{r} 11\frac{1}{2} \\ - 9\frac{1}{3} \\ \hline \end{array}$$

A) $2\frac{1}{6}$

B) $\frac{6}{13}$

C) $\frac{3}{4}$

D) 13

Answer: A

85)

$$\begin{array}{r} 2\frac{32}{64} \\ - 2\frac{20}{40} \\ \hline \end{array}$$

A) 0

B) $\frac{3}{10}$

C) $\frac{1}{2}$

D) $\frac{3}{8}$

Answer: A

86)

$$\begin{array}{r} 13 \\ - 4\frac{3}{7} \\ \hline \end{array}$$

A) $9\frac{3}{7}$

B) $9\frac{4}{7}$

C) $12\frac{4}{7}$

D) $8\frac{4}{7}$

Answer: D

Solve the problem.

87) Ellen is knitting a scarf with one $1\frac{3}{8}$ -inch blue stripe, one 8-inch green stripe, and one 5-inch white stripe. How wide is the scarf?

A) $14\frac{3}{8}$ in.

B) $3\frac{1}{12}$ in.

C) $\frac{8}{115}$ in.

D) $\frac{12}{37}$ in.

Answer: A

88) While shopping for a party, June bought $2\frac{2}{7}$ pounds of hamburger, $2\frac{2}{5}$ pounds of chicken, and $2\frac{1}{3}$ pounds of ham. How much meat did she buy?

A) $\frac{105}{737}$ lb

B) $2\frac{1}{3}$ lb

C) $\frac{3}{7}$ lb

D) $7\frac{2}{105}$ lb

Answer: D

89) A laminated lab bench has $1\frac{2}{9}$ inches of plywood, $1\frac{3}{8}$ inches of pressed board, and $\frac{1}{5}$ inch of formica. What is the thickness of the lab bench?

A) $2\frac{287}{360}$ in.

B) $\frac{25}{32}$ in.

C) $1\frac{7}{25}$ in.

D) $\frac{360}{1007}$ in.

Answer: A

90) To obtain a certain shade of paint, Peter mixed $1\frac{2}{9}$ gallons of white paint with $1\frac{1}{8}$ gallons of brown and 6 gallons of blue paint. How much paint did he have?

A) $\frac{19}{32}$ gal

B) $\frac{72}{601}$ gal

C) $8\frac{25}{72}$ gal

D) $1\frac{13}{19}$ gal

Answer: C

91) Jeff studied math for $2\frac{4}{7}$ hours, history for $1\frac{1}{9}$ hours, and physics for 2 hours. How long did he study?

A) $\frac{63}{358}$ hr

B) $\frac{25}{46}$ hr

C) $5\frac{43}{63}$ hr

D) $1\frac{21}{25}$ hr

Answer: C

- 92) Peter must practice the piano $9\frac{1}{2}$ hours per week. He has already practiced $3\frac{1}{3}$ hours. How many more hours does he need to practice?

A) $6\frac{1}{6}$ hr B) $7\frac{2}{5}$ hr C) $1\frac{4}{5}$ hr D) $1\frac{1}{2}$ hr

Answer: A

- 93) A nail $4\frac{3}{4}$ inches long is driven into a board $1\frac{1}{2}$ inches thick. How much of the nail protrudes from the other side of the board?

A) $\frac{5}{12}$ in. B) $3\frac{1}{4}$ in. C) 1 in. D) $7\frac{4}{5}$ in.

Answer: B

- 94) Jake wants to work $3\frac{4}{5}$ hours at his part-time job this week. He has already worked $1\frac{1}{3}$ hours. How many more hours does he need to work?

A) $6\frac{8}{11}$ hr B) $\frac{11}{30}$ hr C) $2\frac{7}{15}$ hr D) 1 hr

Answer: C

- 95) There were $11\frac{3}{4}$ yards of fabric on a bolt. After a customer bought $3\frac{4}{5}$ yards of fabric, how many yards were left?

A) $7\frac{19}{20}$ yd B) $17\frac{2}{3}$ yd C) $1\frac{2}{5}$ yd D) $3\frac{1}{9}$ yd

Answer: A

- 96) A tank contains $2\frac{1}{4}$ gallons of water. Its capacity is $5\frac{2}{3}$ gallons. How much more water is needed to fill it?

A) $\frac{2}{3}$ gal B) $1\frac{1}{7}$ gal C) $5\frac{6}{7}$ gal D) $3\frac{5}{12}$ gal

Answer: D

Perform the operation and reduce to lowest terms.

97) $\frac{4}{9} \times \frac{1}{2}$

A) $\frac{5}{18}$ B) $\frac{2}{9}$ C) $\frac{5}{11}$ D) $\frac{9}{8}$

Answer: B

98) $\frac{3}{4} \times \frac{1}{3}$

A) $\frac{9}{17}$ B) $\frac{1}{12}$ C) $\frac{4}{9}$ D) $\frac{1}{4}$

Answer: D

99) $\frac{1}{2} \times \frac{13}{22}$

A) $\frac{13}{11}$

B) $\frac{17}{30}$

C) $\frac{1}{44}$

D) $\frac{13}{44}$

Answer: D

100) $2\frac{1}{7} \times 14$

A) $16\frac{1}{7}$

B) 28

C) 196

D) 30

Answer: D

101) $12\frac{1}{2} \times 5\frac{3}{5}$

A) 65

B) $60\frac{6}{20}$

C) 71

D) 70

Answer: D

102) $4\frac{4}{5} \times 3\frac{1}{3}$

A) 21

B) $12\frac{19}{15}$

C) 17

D) 16

Answer: D

103) $6 \times 7\frac{11}{15}$

A) $46\frac{2}{5}$

B) $46\frac{4}{5}$

C) $42\frac{11}{15}$

D) $13\frac{2}{5}$

Answer: A

104) $\frac{2}{5} \times \frac{8}{9} \times \frac{1}{7}$

A) $\frac{11}{21}$

B) $\frac{16}{45}$

C) $\frac{16}{315}$

D) $\frac{2}{315}$

Answer: C

105) $3 \times 2\frac{1}{6} \times \frac{3}{7}$

A) $1\frac{11}{14}$

B) $2\frac{16}{21}$

C) $2\frac{11}{14}$

D) $33\frac{1}{21}$

Answer: C

106) $1\frac{4}{5} \times 4 \times \frac{2}{5}$

A) $2\frac{22}{25}$

B) $4\frac{22}{25}$

C) $5\frac{22}{25}$

D) 42

Answer: A

107) $\frac{5}{8} \div \frac{1}{7}$

A) $4\frac{3}{8}$

B) $\frac{2}{5}$

C) $\frac{5}{56}$

D) $\frac{5}{8}$

Answer: A

108) $\frac{2}{7} \div \frac{10}{19}$

A) $\frac{6}{13}$

B) $\frac{20}{133}$

C) $\frac{19}{35}$

D) $\frac{1}{35}$

Answer: C

109) $\frac{12}{17} \div 3\frac{1}{6}$

A) $\frac{12}{323}$

B) $2\frac{4}{17}$

C) $\frac{72}{323}$

D) $1\frac{8}{23}$

Answer: C

110) $5 \div 3\frac{2}{5}$

A) 17

B) $3\frac{6}{7}$

C) $\frac{5}{17}$

D) $1\frac{8}{17}$

Answer: D

111) $6 \div 2\frac{2}{9}$

A) $13\frac{1}{3}$

B) $2\frac{10}{11}$

C) $2\frac{7}{10}$

D) $\frac{3}{10}$

Answer: C

112) $6\frac{9}{13} \div 3\frac{2}{19}$

A) $20\frac{193}{247}$

B) $4\frac{9}{16}$

C) $\frac{87}{767}$

D) $2\frac{119}{767}$

Answer: D

113) $2\frac{2}{5} \div 6$

A) $\frac{12}{29}$

B) $\frac{11}{30}$

C) $\frac{2}{5}$

D) $\frac{13}{30}$

Answer: C

114) $4\frac{4}{5} \div \frac{1}{5}$

A) 25

B) $22\frac{1}{2}$

C) 23

D) 24

Answer: D

115) $5\frac{7}{9} \div 1\frac{3}{4}$

A) $4\frac{19}{63}$

B) $3\frac{19}{62}$

C) $3\frac{19}{63}$

D) $3\frac{20}{63}$

Answer: C

116) $6\frac{1}{2} \div 5\frac{1}{8}$

A) $1\frac{11}{40}$

B) $1\frac{12}{41}$

C) $1\frac{11}{41}$

D) $2\frac{11}{41}$

Answer: C

Find the time-and-a-half rate for the regular rate.

117) \$10

A) \$17.50

B) \$20.00

C) \$15.00

D) \$14.00

Answer: C

118) \$9

A) \$18.00

B) \$12.60

C) \$15.75

D) \$13.50

Answer: D

119) \$13.50

A) \$27.00

B) \$18.90

C) \$20.25

D) \$23.63

Answer: C

120) \$16.50

A) \$24.75

B) \$33.00

C) \$23.10

D) \$28.88

Answer: A

121) \$162.00

A) \$226.80

B) \$324.00

C) \$283.50

D) \$243.00

Answer: D

Solve the problem.

122) A small company sells stock for $8\frac{3}{8}$ dollars per share. How much will 208 shares cost?

A) 208 dollars

B) $24\frac{56}{67}$ dollars

C) 211 dollars

D) 1,742 dollars

Answer: D

123) How many pieces of yarn $5\frac{1}{2}$ inches long can be cut from a 76 inch piece of yarn? Round answer to the nearest piece of yarn.

A) 97 pieces

B) 13 pieces

C) 418 pieces

D) None of these

Answer: B

124) Tim needs to apply $3\frac{1}{2}$ gallons of herbicide per acre of soybeans. How many gallons of herbicide are needed for 220 acres?

- A) 167 gallons B) $165\frac{1}{2}$ gallons C) 770 gallons D) $62\frac{6}{7}$ gallons

Answer: C

125) On a certain map, 1 inch equals 40 miles. How many miles are in $2\frac{1}{2}$ inches?

- A) 22 miles B) $20\frac{1}{2}$ miles C) 100 miles D) 16 miles

Answer: C

126) A technician has readings that take $1\frac{1}{3}$ minutes each to read and record. How many readings can be completed in 84 minutes?

- A) 9 readings B) 63 readings C) 29 readings D) 112 readings

Answer: B

127) The floor of a rectangular room is to be tiled with $\frac{1}{3}$ foot square tiles along a $12\frac{1}{4}$ foot wall. How many tiles will be needed along the wall?

- A) $4\frac{1}{12}$ tiles B) $36\frac{1}{4}$ tiles C) $36\frac{3}{4}$ tiles D) 38 tiles

Answer: C

Write as a fraction in lowest terms.

128) 0.71

- A) $\frac{1}{71}$ B) $\frac{71}{50}$ C) $\frac{71}{500}$ D) $\frac{71}{100}$

Answer: D

129) 0.744

- A) $\frac{93}{125}$ B) $\frac{1}{744}$ C) $\frac{186}{125}$ D) $\frac{93}{250}$

Answer: A

130) 0.002

- A) $\frac{1}{1000}$ B) 1 C) $\frac{1}{250}$ D) $\frac{1}{500}$

Answer: D

131) 0.0002

- A) $\frac{1}{2500}$ B) $\frac{1}{500}$ C) $\frac{1}{5000}$ D) $\frac{1}{10000}$

Answer: C

Convert the fraction to a decimal. If a division does not come out evenly, round the answer to the nearest thousandth.

132) $\frac{1}{8}$

A) 0.013

B) 1.25

C) 0.125

D) 8

Answer: C

133) $\frac{16}{35}$

A) 4.57

B) 0.046

C) 2.188

D) 0.457

Answer: D

134) $\frac{53}{70}$

A) 0.076

B) 0.757

C) 7.57

D) 1.321

Answer: B

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Provide an appropriate response.

135) In your own words, explain what a fraction means.

Answer: It is a division. $\frac{a}{b} = a \div b$. Divide the whole into b equal parts, and take a of them.

136) Explain the meaning of $\frac{3}{4}$. Use a pizza in your explanation.

Answer: Cut a pizza into 4 parts and serve 3 of them.

137) Explain, in your own words, what is the least common multiple of two numbers.

Answer: Answers will vary. The LCM of two whole numbers is the smallest whole number divisible by both those numbers.

138) Explain why, when rewriting a fraction with a different denominator, the fraction can be multiplied by another fraction whose numerator and denominator are the same.

Answer: Answers will vary. When the numerator and denominator are the same, the fraction is equal to 1. Any number multiplied by 1 is the number itself.

139) Explain what it means to rename a fraction.

Answer: It means to write an equivalent fraction. It can be done by reducing or expanding a fraction.

140) What is wrong if two fractions are added and the result is expressed as a whole number and an improper fraction?

Answer: Answers will vary. The result is hard to understand. The result should be given as a mixed number.

141) Tell what you would do if you added the fraction parts of mixed numbers and the result was greater than 1.

Answer: Answers will vary. You would carry from the fraction column to the whole number.

142) Is this statement correct or incorrect?

Explain.

$$8\frac{2}{9} = 8 \cdot \frac{2}{9}$$

Answer: Incorrect. A mixed number is an addition, not a multiplication.

143) Explain in your own words the steps you would take to divide fractions.

Answer: Change any mixed numbers to improper fractions. Multiply the dividend by the reciprocal of the divisor.
Reduce the fractions if possible. Multiply across.

Answer Key

Testname: UNTITLED2

- 1) A
- 2) B
- 3) A
- 4) C
- 5) B
- 6) A
- 7) C
- 8) A
- 9) B
- 10) C
- 11) C
- 12) B
- 13) D
- 14) D
- 15) D
- 16) A
- 17) A
- 18) B
- 19) A
- 20) D
- 21) B
- 22) C
- 23) D
- 24) D
- 25) A
- 26) D
- 27) C
- 28) A
- 29) B
- 30) A
- 31) B
- 32) C
- 33) C
- 34) D
- 35) B
- 36) D
- 37) D
- 38) B
- 39) D
- 40) D
- 41) B
- 42) B
- 43) D
- 44) C
- 45) C
- 46) C
- 47) B
- 48) B
- 49) C
- 50) B

Answer Key

Testname: UNTITLED2

- 51) C
- 52) B
- 53) A
- 54) B
- 55) D
- 56) C
- 57) C
- 58) D
- 59) D
- 60) D
- 61) B
- 62) A
- 63) B
- 64) D
- 65) A
- 66) D
- 67) A
- 68) A
- 69) C
- 70) B
- 71) B
- 72) C
- 73) D
- 74) D
- 75) C
- 76) C
- 77) A
- 78) B
- 79) B
- 80) A
- 81) A
- 82) A
- 83) C
- 84) A
- 85) A
- 86) D
- 87) A
- 88) D
- 89) A
- 90) C
- 91) C
- 92) A
- 93) B
- 94) C
- 95) A
- 96) D
- 97) B
- 98) D
- 99) D
- 100) D

Answer Key

Testname: UNTITLED2

- 101) D
- 102) D
- 103) A
- 104) C
- 105) C
- 106) A
- 107) A
- 108) C
- 109) C
- 110) D
- 111) C
- 112) D
- 113) C
- 114) D
- 115) C
- 116) C
- 117) C
- 118) D
- 119) C
- 120) A
- 121) D
- 122) D
- 123) B
- 124) C
- 125) C
- 126) B
- 127) C
- 128) D
- 129) A
- 130) D
- 131) C
- 132) C
- 133) D
- 134) B
- 135) It is a division. $\frac{a}{b} = a \div b$. Divide the whole into b equal parts, and take a of them.
- 136) Cut a pizza into 4 parts and serve 3 of them.
- 137) Answers will vary. The LCM of two whole numbers is the smallest whole number divisible by both those numbers.
- 138) Answers will vary. When the numerator and denominator are the same, the fraction is equal to 1. Any number multiplied by 1 is the number itself.
- 139) It means to write an equivalent fraction. It can be done by reducing or expanding a fraction.
- 140) Answers will vary. The result is hard to understand. The result should be given as a mixed number.
- 141) Answers will vary. You would carry from the fraction column to the whole number.
- 142) Incorrect. A mixed number is an addition, not a multiplication.
- 143) Change any mixed numbers to improper fractions. Multiply the dividend by the reciprocal of the divisor. Reduce the fractions if possible. Multiply across.