

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

**Write each mixed number as an improper fraction.**

1)  $6\frac{2}{8}$  1) \_\_\_\_\_

A) 1

B)  $\frac{51}{8}$

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

D)  $\frac{25}{4}$

2)  $25\frac{2}{5}$  2) \_\_\_\_\_

A)  $\frac{127}{5}$

B)  $\frac{27}{5}$

C) 11

D)  $\frac{128}{5}$

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

A)  $\frac{103}{11}$

B)  $\frac{12}{11}$

C)  $\frac{38}{11}$

D)  $\frac{102}{11}$

4)  $6\frac{12}{16}$  4) \_\_\_\_\_

A)  $\frac{11}{2}$

B)  $\frac{109}{16}$

C)  $\frac{9}{8}$

D)  $\frac{27}{4}$

5)  $11\frac{18}{19}$  5) \_\_\_\_\_

A)  $\frac{217}{19}$

B)  $\frac{227}{19}$

C) 12

D)  $\frac{29}{19}$

6)  $20\frac{5}{8}$  6) \_\_\_\_\_

A) 35

B)  $\frac{165}{8}$

C)  $\frac{25}{2}$

D) 300

**Change the improper fraction to a whole or mixed number.**

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

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

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

C)  $2\frac{1}{3}$

D) 3

8)  $\frac{49}{7}$  8) \_\_\_\_\_

A) 7

B) 8

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

D) 6

9)  $\frac{66}{22}$

9) \_\_\_\_\_

A) 2

B)  $3\frac{1}{11}$

C) 3

D) 4

10)  $\frac{90}{15}$

10) \_\_\_\_\_

A) 6

B) 7

C)  $6\frac{2}{15}$

D) 5

11)  $\frac{59}{10}$

11) \_\_\_\_\_

A)  $5\frac{9}{10}$

B)  $6\frac{9}{10}$

C)  $4\frac{9}{10}$

D)  $6\frac{1}{10}$

12)  $\frac{66}{3}$

12) \_\_\_\_\_

A) 22

B) 23

C) 21

D)  $22\frac{2}{3}$

**Write the fraction in lowest terms.**

13)  $\frac{2}{8}$

13) \_\_\_\_\_

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

B) 7

C)  $\frac{2}{8}$

D) 4

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

14) \_\_\_\_\_

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

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

C)  $\frac{13}{5}$

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

15)  $\frac{60}{98}$

15) \_\_\_\_\_

A)  $\frac{30}{49}$

B)  $\frac{97}{59}$

C)  $\frac{60}{98}$

D)  $\frac{49}{30}$

16)  $\frac{36}{156}$

16) \_\_\_\_\_

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

B)  $\frac{13}{3}$

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

D)  $\frac{37}{157}$

17)  $\frac{198}{288}$

17) \_\_\_\_\_

A)  $\frac{199}{289}$

B)  $\frac{11}{16}$

C)  $\frac{287}{197}$

D)  $\frac{16}{11}$

18)  $\frac{66}{750}$  18) \_\_\_\_\_  
 A)  $\frac{67}{751}$  B)  $\frac{749}{65}$  C)  $\frac{11}{125}$  D)  $\frac{125}{11}$

19)  $\frac{380}{440}$  19) \_\_\_\_\_  
 A)  $\frac{22}{19}$  B)  $\frac{439}{379}$  C)  $\frac{127}{147}$  D)  $\frac{19}{22}$

**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. 14-kt gold is 14 parts gold and 10 parts alloy. Write this measure of purity as a fraction in lowest terms. 20) \_\_\_\_\_  
 A)  $\frac{5}{7}$  B)  $\frac{7}{5}$  C)  $\frac{5}{12}$  D)  $\frac{7}{12}$

**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 21) \_\_\_\_\_  
 A) 2, 3, 5, 6, 10 B) 2, 3, 5, 10 C) 2, 3, 5, 6 D) None

22) 1368 22) \_\_\_\_\_  
 A) 2, 3, 4, 8 B) 2, 3, 4, 6, 8, 9 C) None D) 2, 3, 6, 8

23) 181 23) \_\_\_\_\_  
 A) 3 B) 3, 5 C) None D) 3, 6

24) 2257 24) \_\_\_\_\_  
 A) None B) 3, 6 C) 3, 5 D) 3

**Write an equivalent fraction using the given denominator.**

25)  $\frac{3}{6} = \frac{\quad}{24}$  25) \_\_\_\_\_  
 A) 18 B) 72 C) 12 D) 3

26)  $\frac{3}{5} = \frac{\quad}{175}$  26) \_\_\_\_\_  
 A) 105 B) 15 C) 7 D) 210

27)  $\frac{21}{11} = \frac{\quad}{77}$  27) \_\_\_\_\_  
 A) 77 B) 7 C) 294 D) 147

28)  $\frac{8}{5} = \frac{\quad}{30}$  28) \_\_\_\_\_  
 A) 6 B) 30 C) 96 D) 48

29)  $\frac{3}{4} = \frac{\quad}{28}$

A) 21

B) 42

C) 28

D) 7

29) \_\_\_\_\_

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

30) 84, 378

A) 42

B) 1512

C) 2268

D) 756

30) \_\_\_\_\_

31) 135, 56, 150

A) 1050

B) 3780

C) 37,800

D) 7560

31) \_\_\_\_\_

32) 24, 54, 9

A) 108

B) 72

C) 216

D) 54

32) \_\_\_\_\_

33) 112, 96

A) 672

B) 336

C) 1344

D) 224

33) \_\_\_\_\_

34) 60, 20, 70

A) 420

B) 210

C) 60

D) 140

34) \_\_\_\_\_

35) 7, 14, 21, 36

A) 252

B) 280

C) 259

D) 112

35) \_\_\_\_\_

36) 6, 8, 10, 12

A) 108

B) 120

C) 90

D) 60

36) \_\_\_\_\_

37) 7, 14, 28, 49

A) 196

B) 147

C) 392

D) 49

37) \_\_\_\_\_

**Add. Write the answer in lowest terms.**

38)  $\frac{2}{5} + \frac{2}{15}$

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

B)  $\frac{4}{15}$

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

D)  $\frac{41}{75}$

38) \_\_\_\_\_

39)  $\frac{1}{3} + \frac{2}{9}$

A)  $\frac{16}{27}$

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

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

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

39) \_\_\_\_\_

40)  $\frac{4}{15} + \frac{7}{10}$

A)  $\frac{29}{5}$

B)  $\frac{11}{25}$

C)  $\frac{29}{30}$

D)  $\frac{11}{150}$

40) \_\_\_\_\_

$$41) \frac{5}{9} + \frac{5}{6}$$

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

$$B) 1\frac{7}{18}$$

$$C) 5$$

$$D) \frac{5}{27}$$

41) \_\_\_\_\_

$$42) \frac{10}{11} + \frac{1}{9}$$

$$A) 1\frac{2}{99}$$

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

$$C) 5\frac{1}{20}$$

$$D) \frac{1}{9}$$

42) \_\_\_\_\_

**Add. Write your answer in lowest terms.**

$$43) \frac{1}{3} + \frac{4}{7} + \frac{5}{6}$$

$$A) 1\frac{31}{42}$$

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

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

$$D) 13\frac{11}{16}$$

43) \_\_\_\_\_

$$44) \frac{26}{15} + \frac{1}{8} + \frac{27}{10}$$

$$A) 4\frac{67}{120}$$

$$B) 420\frac{10}{13}$$

$$C) \frac{58}{65}$$

$$D) \frac{29}{3000}$$

44) \_\_\_\_\_

$$45) \frac{7}{3} + \frac{25}{21} + \frac{11}{9}$$

$$A) 23\frac{1}{2}$$

$$B) \frac{34}{1701}$$

$$C) 4\frac{47}{63}$$

$$D) 1\frac{5}{12}$$

45) \_\_\_\_\_

46)

$$\begin{array}{r} \frac{8}{15} \\ \frac{7}{10} \\ + \frac{4}{5} \\ \hline \end{array}$$

$$A) \frac{19}{30}$$

$$B) 2\frac{1}{30}$$

$$C) 2\frac{8}{15}$$

$$D) 1\frac{13}{15}$$

46) \_\_\_\_\_

47)

$$\begin{array}{r} \frac{7}{12} \\ \frac{5}{8} \\ + \frac{1}{6} \\ \hline \end{array}$$

A)  $\frac{13}{24}$

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

C)  $1\frac{11}{24}$

D)  $1\frac{3}{8}$

47) \_\_\_\_\_

**Subtract. Write the answer in lowest terms.**

48)  $\frac{8}{9} - \frac{1}{2}$

A)  $\frac{18}{7}$

B)  $\frac{7}{18}$

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

D)  $\frac{5}{54}$

48) \_\_\_\_\_

49)  $\frac{8}{9} - \frac{4}{7}$

A)  $\frac{20}{63}$

B)  $\frac{4}{63}$

C)  $\frac{63}{20}$

D)  $\frac{20}{9}$

49) \_\_\_\_\_

50)  $\frac{1}{2} - \frac{3}{19}$

A)  $\frac{38}{13}$

B)  $\frac{13}{2}$

C)  $\frac{13}{38}$

D)  $\frac{1}{152}$

50) \_\_\_\_\_

51)  $\frac{22}{25} - \frac{5}{11}$

A)  $\frac{117}{275}$

B)  $\frac{6}{275}$

C)  $\frac{275}{117}$

D)  $\frac{234}{25}$

51) \_\_\_\_\_

52)  $\frac{1}{15} - \frac{2}{35}$

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

B)  $\frac{1}{1575}$

C) 105

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

52) \_\_\_\_\_

53)

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

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

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

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

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

53) \_\_\_\_\_

54)

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

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

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

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

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

54) \_\_\_\_\_

55)

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

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

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

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

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

55) \_\_\_\_\_

56)

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

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

B) 2

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

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

56) \_\_\_\_\_

**Solve the problem.**

57) Ellen is knitting a scarf with one  $2\frac{1}{2}$ -inch blue stripe, one  $3\frac{1}{3}$ -inch green stripe, and one 6-inch white stripe. How wide is the scarf?

A)  $\frac{6}{71}$  in.

B)  $3\frac{7}{17}$  in.

C)  $\frac{17}{58}$  in.

D)  $11\frac{5}{6}$  in.

57) \_\_\_\_\_

58) While shopping for a party, June bought  $6\frac{1}{3}$  pounds of hamburger,  $1\frac{1}{2}$  pounds of chicken, and  $1\frac{3}{8}$  pounds of ham. How much meat did she buy?

A)  $\frac{19}{42}$  lb

B)  $2\frac{4}{19}$  lb

C)  $9\frac{5}{24}$  lb

D)  $\frac{24}{221}$  lb

58) \_\_\_\_\_

59) A laminated lab bench has  $1\frac{2}{5}$  inches of plywood,  $3\frac{1}{2}$  inches of pressed board, and  $\frac{9}{11}$  inch of formica. What is the thickness of the lab bench?

A)  $\frac{110}{629}$  in.

B)  $1\frac{1}{2}$  in.

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

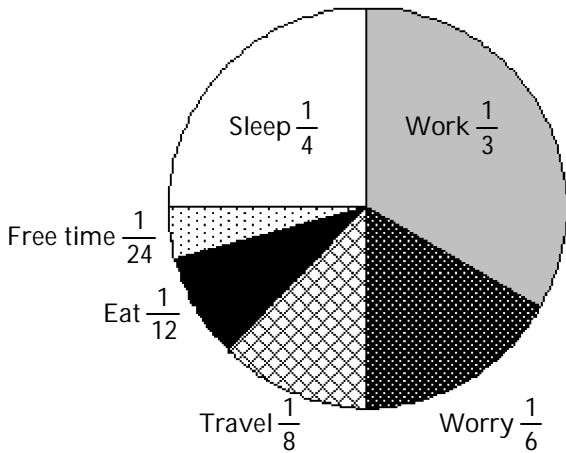
D)  $5\frac{79}{110}$  in.

59) \_\_\_\_\_

- 60) To obtain a certain shade of paint, Peter mixed 6 gallons of white paint with  $1\frac{7}{9}$  gallons of brown and 2 gallons of blue paint. How much paint did he have? 60) \_\_\_\_\_  
 A)  $\frac{9}{88}$  gal                      B)  $2\frac{10}{21}$  gal                      C)  $\frac{21}{52}$  gal                      D)  $9\frac{7}{9}$  gal
- 61) Jeff studied math for  $7\frac{1}{2}$  hours, history for  $3\frac{4}{5}$  hours, and physics for 5 hours. How long did he study? 61) \_\_\_\_\_  
 A)  $\frac{10}{163}$  hr                      B)  $16\frac{3}{10}$  hr                      C)  $4\frac{9}{10}$  hr                      D)  $\frac{10}{49}$  hr
- 62) Peter must practice the piano  $3\frac{1}{5}$  hours per week. He has already practiced  $1\frac{2}{3}$  hours. How many more hours does he need to practice? 62) \_\_\_\_\_  
 A)  $1\frac{8}{15}$  hr                      B)  $\frac{6}{11}$  hr                      C)  $4\frac{2}{11}$  hr                      D)  $\frac{1}{5}$  hr
- 63) A nail  $2\frac{3}{4}$  inches long is driven into a board  $1\frac{3}{5}$  inches thick. How much of the nail protrudes from the other side of the board? 63) \_\_\_\_\_  
 A)  $\frac{1}{3}$  in.                      B)  $\frac{3}{20}$  in.                      C)  $2\frac{5}{9}$  in.                      D)  $1\frac{3}{20}$  in.
- 64) Jake wants to work  $4\frac{1}{3}$  hours at his part-time job this week. He has already worked  $1\frac{4}{5}$  hours. How many more hours does he need to work? 64) \_\_\_\_\_  
 A)  $\frac{1}{2}$  hr                      B)  $\frac{4}{15}$  hr                      C)  $4\frac{3}{4}$  hr                      D)  $2\frac{8}{15}$  hr
- 65) There were  $24\frac{1}{2}$  yards of fabric on a bolt. After a customer bought  $3\frac{2}{3}$  yards of fabric, how many yards were left? 65) \_\_\_\_\_  
 A)  $7\frac{3}{5}$  yd                      B)  $6\frac{1}{3}$  yd                      C) 25 yd                      D)  $20\frac{5}{6}$  yd
- 66) A tank contains  $2\frac{3}{4}$  gallons of water. Its capacity is  $3\frac{4}{5}$  gallons. How much more water is needed to fill it? 66) \_\_\_\_\_  
 A)  $\frac{2}{9}$  gal                      B)  $\frac{8}{9}$  gal                      C)  $1\frac{1}{20}$  gal                      D)  $2\frac{1}{3}$  gal



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? 67) \_\_\_\_\_  
 A)  $\frac{2}{3}$  B)  $\frac{7}{12}$  C)  $\frac{5}{8}$  D)  $\frac{1}{2}$
- 68) How many hours of the day are spent in work, worry, and travel? 68) \_\_\_\_\_  
 A) 14 hours B) 16 hours C) 12 hours D) 15 hours
- 69) What activity takes the most time? How many hours? 69) \_\_\_\_\_  
 A) Work, 12 hours B) Work, 8 hours C) Sleep, 8 hours D) Work, 10 hours
- 70) What fraction of the day is spent in sleeping, eating, and free time? 70) \_\_\_\_\_  
 A)  $\frac{3}{8}$  B)  $\frac{7}{24}$  C)  $\frac{1}{2}$  D)  $\frac{5}{12}$
- 71) How many hours of the day are given to free time and eating? 71) \_\_\_\_\_  
 A) 3 hours B) 4 hours C) 1 hour D) 2 hours
- 72) If "worry" is another form of work, what fraction of the day is spent working? 72) \_\_\_\_\_  
 A)  $\frac{2}{3}$  B)  $\frac{1}{3}$  C)  $\frac{7}{12}$  D)  $\frac{1}{2}$
- 73) How many hours of the day are spent in travel and free time? 73) \_\_\_\_\_  
 A) 6 hours B) 5 hours C) 3 hours D) 4 hours
- 74) What fraction of the day is spent in free time and travel? 74) \_\_\_\_\_  
 A)  $\frac{2}{9}$  B)  $\frac{1}{4}$  C)  $\frac{1}{6}$  D)  $\frac{1}{12}$

**Add. Write the answer in lowest terms.**

75)

$$\begin{array}{r} 12\frac{1}{3} \\ + 11\frac{3}{5} \\ \hline \end{array}$$

75) \_\_\_\_\_

A)  $22\frac{14}{15}$

B)  $24\frac{14}{15}$

C)  $23\frac{14}{15}$

D)  $12\frac{14}{15}$

76)

$$\begin{array}{r} 16\frac{3}{8} \\ + 18\frac{1}{8} \\ \hline \end{array}$$

76) \_\_\_\_\_

A)  $35\frac{1}{2}$

B)  $16\frac{1}{2}$

C)  $34\frac{1}{2}$

D)  $33\frac{1}{2}$

77)

$$\begin{array}{r} 9\frac{4}{9} \\ + 4\frac{5}{9} \\ \hline \end{array}$$

77) \_\_\_\_\_

A) 13

B)  $5\frac{4}{9}$

C) 14

D)  $14\frac{4}{9}$

78)

$$\begin{array}{r} 4\frac{4}{9} \\ + 7\frac{6}{7} \\ \hline \end{array}$$

78) \_\_\_\_\_

A)  $1\frac{32}{63}$

B)  $12\frac{19}{63}$

C)  $5\frac{15}{16}$

D)  $48\frac{7}{16}$

79)

$$\begin{array}{r} 26\frac{2}{3} \\ + 17\frac{1}{2} \\ \hline \end{array}$$

A)  $12\frac{1}{2}$

B)  $21\frac{3}{7}$

C)  $44\frac{1}{6}$

D)  $75\frac{5}{7}$

79) \_\_\_\_\_

80)

$$\begin{array}{r} 17\frac{2}{7} \\ 16\frac{3}{7} \\ + 14\frac{3}{7} \\ \hline \end{array}$$

A)  $49\frac{1}{7}$

B)  $47\frac{1}{7}$

C) 48

D)  $48\frac{1}{7}$

80) \_\_\_\_\_

81)

$$\begin{array}{r} 3\frac{3}{5} \\ 10\frac{4}{7} \\ + \frac{4}{5} \\ \hline \end{array}$$

A)  $14\frac{34}{35}$

B)  $15\frac{34}{35}$

C)  $14\frac{1}{2}$

D)  $13\frac{34}{35}$

81) \_\_\_\_\_

**Subtract. Write the answer in lowest terms.**

82)

$$\begin{array}{r} 2\frac{7}{9} \\ - 2\frac{1}{2} \\ \hline \end{array}$$

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

B)  $\frac{5}{27}$

C)  $1\frac{2}{3}$

D)  $\frac{5}{18}$

82) \_\_\_\_\_

83)

$$\begin{array}{r} 13\frac{1}{9} \\ - 3\frac{8}{9} \\ \hline \end{array}$$

83) \_\_\_\_\_

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

B)  $9\frac{1}{9}$

C)  $15\frac{2}{9}$

D)  $16\frac{2}{9}$

84)

$$\begin{array}{r} 14\frac{6}{7} \\ - 6\frac{3}{8} \\ \hline \end{array}$$

84) \_\_\_\_\_

A)  $67\frac{6}{7}$

B)  $\frac{53}{56}$

C)  $8\frac{27}{56}$

D)  $\frac{56}{475}$

85)

$$\begin{array}{r} 9\frac{36}{42} \\ - 9\frac{30}{35} \\ \hline \end{array}$$

85) \_\_\_\_\_

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

B) 0

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

D)  $\frac{6}{35}$

86)

$$\begin{array}{r} 10 \\ - 4\frac{4}{7} \\ \hline \end{array}$$

86) \_\_\_\_\_

A)  $6\frac{4}{7}$

B)  $5\frac{3}{7}$

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

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

**Solve the problem.**

87) Ellen is knitting a scarf with one 7-inch blue stripe, one  $2\frac{5}{6}$ -inch green stripe, and one  $2\frac{1}{5}$ -inch white stripe. How wide is the scarf?

87) \_\_\_\_\_

A)  $\frac{30}{361}$  in.

B)  $\frac{13}{42}$  in.

C)  $3\frac{3}{13}$  in.

D)  $12\frac{1}{30}$  in.

- 88) While shopping for a party, June bought  $2\frac{1}{3}$  pounds of hamburger,  $3\frac{3}{4}$  pounds of chicken, and  $9\frac{1}{2}$  pounds of ham. How much meat did she buy? 88) \_\_\_\_\_
- A)  $\frac{1}{4}$  lb                      B) 4 lb                      C)  $15\frac{7}{12}$  lb                      D)  $\frac{12}{187}$  lb
- 89) A laminated lab bench has  $3\frac{1}{4}$  inches of plywood,  $1\frac{2}{9}$  inches of pressed board, and  $\frac{9}{10}$  inch of formica. What is the thickness of the lab bench? 89) \_\_\_\_\_
- A)  $\frac{180}{967}$  in.                      B)  $1\frac{10}{23}$  in.                      C)  $\frac{23}{33}$  in.                      D)  $5\frac{67}{180}$  in.
- 90) To obtain a certain shade of paint, Peter mixed  $6\frac{2}{3}$  gallons of white paint with 2 gallons of brown and  $1\frac{1}{9}$  gallons of blue paint. How much paint did he have? 90) \_\_\_\_\_
- A)  $\frac{17}{40}$  gal                      B)  $\frac{9}{88}$  gal                      C)  $2\frac{6}{17}$  gal                      D)  $9\frac{7}{9}$  gal
- 91) Jeff studied math for  $1\frac{1}{2}$  hours, history for 6 hours, and physics for  $5\frac{1}{3}$  hours. How long did he study? 91) \_\_\_\_\_
- A)  $\frac{13}{40}$  hr                      B)  $\frac{6}{77}$  hr                      C)  $12\frac{5}{6}$  hr                      D)  $3\frac{1}{13}$  hr
- 92) Peter must practice the piano  $3\frac{3}{5}$  hours per week. He has already practiced  $2\frac{5}{6}$  hours. How many more hours does he need to practice? 92) \_\_\_\_\_
- A)  $\frac{1}{11}$  hr                      B)  $\frac{23}{30}$  hr                      C)  $\frac{1}{30}$  hr                      D)  $2\frac{1}{11}$  hr
- 93) A nail  $7\frac{1}{2}$  inches long is driven into a board  $3\frac{1}{4}$  inches thick. How much of the nail protrudes from the other side of the board? 93) \_\_\_\_\_
- A)  $4\frac{1}{4}$  in.                      B)  $\frac{1}{3}$  in.                      C)  $\frac{1}{4}$  in.                      D)  $5\frac{2}{3}$  in.
- 94) Jake wants to work  $2\frac{3}{4}$  hours at his part-time job this week. He has already worked  $1\frac{4}{5}$  hours. How many more hours does he need to work? 94) \_\_\_\_\_
- A)  $2\frac{1}{9}$  hr                      B)  $\frac{1}{10}$  hr                      C)  $\frac{19}{20}$  hr                      D)  $\frac{2}{9}$  hr

- 95) There were  $5\frac{4}{5}$  yards of fabric on a bolt. After a customer bought  $3\frac{3}{4}$  yards of fabric, how many yards were left? 95) \_\_\_\_\_
- A)  $\frac{7}{10}$  yd      B)  $1\frac{5}{9}$  yd      C)  $2\frac{1}{20}$  yd      D)  $4\frac{5}{9}$  yd

- 96) A tank contains  $2\frac{1}{4}$  gallons of water. Its capacity is  $3\frac{1}{5}$  gallons. How much more water is needed to fill it? 96) \_\_\_\_\_
- A)  $\frac{7}{20}$  gal      B)  $2\frac{1}{9}$  gal      C)  $\frac{7}{9}$  gal      D)  $\frac{19}{20}$  gal

**Perform the operation and reduce to lowest terms.**

- 97)  $\frac{1}{4} \times \frac{1}{3}$  97) \_\_\_\_\_
- A)  $\frac{3}{11}$       B)  $\frac{1}{12}$       C)  $\frac{4}{3}$       D)  $\frac{1}{8}$
- 98)  $\frac{2}{3} \times \frac{2}{3}$  98) \_\_\_\_\_
- A)  $\frac{2}{9}$       B)  $\frac{2}{3}$       C)  $\frac{4}{9}$       D) 1
- 99)  $\frac{1}{2} \times \frac{7}{8}$  99) \_\_\_\_\_
- A)  $\frac{7}{16}$       B)  $\frac{1}{48}$       C)  $\frac{23}{28}$       D)  $\frac{7}{4}$
- 100)  $3\frac{2}{3} \times 9$  100) \_\_\_\_\_
- A)  $12\frac{2}{3}$       B) 81      C) 27      D) 33
- 101)  $5\frac{5}{7} \times 7\frac{7}{8}$  101) \_\_\_\_\_
- A)  $35\frac{35}{56}$       B) 46      C) 45      D) 47
- 102)  $4\frac{1}{2} \times 2\frac{2}{3}$  102) \_\_\_\_\_
- A) 11      B) 12      C) 13      D)  $8\frac{1}{6}$

- 103)  $4 \times 6\frac{13}{14}$  103) \_\_\_\_\_  
 A)  $27\frac{5}{7}$  B)  $10\frac{5}{7}$  C)  $24\frac{13}{14}$  D)  $27\frac{7}{7}$
- 104)  $\frac{1}{2} \times \frac{4}{5} \times \frac{1}{2}$  104) \_\_\_\_\_  
 A)  $\frac{3}{5}$  B)  $\frac{1}{20}$  C)  $\frac{2}{5}$  D)  $\frac{1}{5}$
- 105)  $4 \times 2\frac{2}{9} \times \frac{3}{8}$  105) \_\_\_\_\_  
 A)  $2\frac{1}{3}$  B)  $3\frac{23}{72}$  C)  $24\frac{1}{24}$  D)  $3\frac{1}{3}$
- 106)  $3\frac{2}{5} \times 5 \times \frac{2}{5}$  106) \_\_\_\_\_  
 A) 151 B)  $8\frac{4}{5}$  C)  $15\frac{4}{5}$  D)  $6\frac{4}{5}$
- 107)  $\frac{5}{8} \div \frac{1}{5}$  107) \_\_\_\_\_  
 A)  $\frac{1}{8}$  B)  $\frac{6}{13}$  C)  $3\frac{1}{8}$  D)  $\frac{5}{8}$
- 108)  $\frac{2}{3} \div \frac{11}{12}$  108) \_\_\_\_\_  
 A)  $\frac{2}{33}$  B)  $\frac{5}{6}$  C)  $\frac{8}{11}$  D)  $\frac{11}{18}$
- 109)  $\frac{4}{9} \div 1\frac{7}{11}$  109) \_\_\_\_\_  
 A)  $\frac{2}{81}$  B)  $\frac{22}{81}$  C)  $1\frac{1}{10}$  D)  $\frac{8}{11}$
- 110)  $1\frac{9}{10} \div 2\frac{1}{2}$  110) \_\_\_\_\_  
 A)  $\frac{19}{200}$  B)  $\frac{19}{25}$  C)  $2\frac{1}{6}$  D)  $4\frac{3}{4}$
- 111)  $2\frac{1}{4} \div 7$  111) \_\_\_\_\_  
 A)  $\frac{9}{28}$  B)  $\frac{9}{56}$  C)  $15\frac{3}{4}$  D)  $3\frac{5}{6}$

112)  $2\frac{1}{3} \div 21\frac{1}{3}$  112) \_\_\_\_\_  
 A)  $49\frac{7}{9}$  B)  $\frac{7}{192}$  C)  $5\frac{1}{21}$  D)  $\frac{7}{64}$

113)  $7\frac{7}{9} \div 10$  113) \_\_\_\_\_  
 A)  $\frac{23}{30}$  B)  $\frac{71}{90}$  C)  $\frac{70}{89}$  D)  $\frac{7}{9}$

114)  $3\frac{2}{9} \div \frac{1}{9}$  114) \_\_\_\_\_  
 A) 28 B)  $27\frac{1}{2}$  C) 30 D) 29

115)  $3\frac{8}{9} \div 2\frac{4}{5}$  115) \_\_\_\_\_  
 A)  $2\frac{7}{18}$  B)  $1\frac{4}{9}$  C)  $1\frac{7}{18}$  D)  $1\frac{7}{17}$

116)  $5\frac{3}{4} \div 5\frac{1}{3}$  116) \_\_\_\_\_  
 A)  $1\frac{3}{32}$  B)  $2\frac{5}{64}$  C)  $1\frac{5}{64}$  D)  $1\frac{5}{63}$

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

117) \$8 117) \_\_\_\_\_  
 A) \$12.00 B) \$14.00 C) \$11.20 D) \$16.00

118) \$17 118) \_\_\_\_\_  
 A) \$25.50 B) \$34.00 C) \$29.75 D) \$23.80

119) \$15.50 119) \_\_\_\_\_  
 A) \$21.70 B) \$23.25 C) \$31.00 D) \$27.13

120) \$14.50 120) \_\_\_\_\_  
 A) \$29.00 B) \$21.75 C) \$20.30 D) \$25.38

121) \$82.00 121) \_\_\_\_\_  
 A) \$143.50 B) \$114.80 C) \$164.00 D) \$123.00

**Solve the problem.**

122) A small company sells stock for  $8\frac{5}{8}$  dollars per share. How much will 56 shares cost? 122) \_\_\_\_\_  
 A) 61 dollars B) 483 dollars C) 56 dollars D)  $6\frac{34}{69}$  dollars



- 123) How many pieces of string  $3\frac{1}{4}$  inches long can be cut from a 72 inch piece of string? Round answer to the nearest piece of string. 123) \_\_\_\_\_  
 A) 234 pieces      B) 22 pieces      C) 55 pieces      D) None of these
- 124) Tim needs to apply  $3\frac{1}{2}$  gallons of herbicide per acre of soybeans. How many gallons of herbicide are needed for 164 acres? 124) \_\_\_\_\_  
 A)  $46\frac{6}{7}$  gallons      B) 574 gallons      C)  $123\frac{1}{2}$  gallons      D) 125 gallons
- 125) On a certain map, 1 inch equals 24 miles. How many miles are in  $5\frac{3}{4}$  inches? 125) \_\_\_\_\_  
 A) 33 miles      B)  $30\frac{3}{4}$  miles      C)  $4\frac{4}{23}$  miles      D) 138 miles
- 126) A technician has readings that take  $3\frac{1}{3}$  minutes each to read and record. How many readings can be completed in 180 minutes? 126) \_\_\_\_\_  
 A) 181 readings      B) 54 readings      C) 600 readings      D) 7 readings
- 127) The floor of a rectangular room is to be tiled with  $\frac{1}{3}$  foot square tiles along a  $10\frac{5}{8}$  foot wall. How many tiles will be needed along the wall? 127) \_\_\_\_\_  
 A) 35 tiles      B)  $30\frac{5}{8}$  tiles      C)  $31\frac{7}{8}$  tiles      D)  $3\frac{13}{24}$  tiles

**Write as a fraction in lowest terms.**

- 128) 0.56 128) \_\_\_\_\_  
 A)  $\frac{14}{125}$       B)  $\frac{14}{25}$       C)  $\frac{28}{25}$       D)  $\frac{1}{56}$
- 129) 0.166 129) \_\_\_\_\_  
 A)  $\frac{83}{250}$       B)  $\frac{1}{166}$       C)  $\frac{83}{500}$       D)  $\frac{83}{1000}$
- 130) 0.03 130) \_\_\_\_\_  
 A)  $\frac{3}{200}$       B)  $\frac{3}{50}$       C)  $\frac{1}{6}$       D)  $\frac{3}{100}$
- 131) 0.00225 131) \_\_\_\_\_  
 A)  $\frac{9}{400}$       B)  $\frac{9}{8000}$       C)  $\frac{9}{2000}$       D)  $\frac{9}{4000}$

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

132)  $\frac{5}{6}$  132) \_\_\_\_\_

A) 0.833

B) 0.083

C) 8.33

D) 1.2

133)  $\frac{39}{40}$  133) \_\_\_\_\_

A) 0.098

B) 9.75

C) 0.975

D) 1.026

134)  $\frac{73}{85}$  134) \_\_\_\_\_

A) 0.086

B) 0.859

C) 8.59

D) 1.164

**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. 135) \_\_\_\_\_

136) Explain the meaning of  $\frac{2}{3}$ . Use a pizza in your explanation. 136) \_\_\_\_\_

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

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. 138) \_\_\_\_\_

139) Explain what it means to rename a fraction. 139) \_\_\_\_\_

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

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

142) Is this statement correct or incorrect?  
Explain. 142) \_\_\_\_\_

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

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

## Answer Key

Testname: UNTITLED2

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

## Answer Key

Testname: UNTITLED2

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

## Answer Key

Testname: UNTITLED2

- 101) C
- 102) B
- 103) A
- 104) D
- 105) D
- 106) D
- 107) C
- 108) C
- 109) B
- 110) B
- 111) A
- 112) D
- 113) D
- 114) D
- 115) C
- 116) C
- 117) A
- 118) A
- 119) B
- 120) B
- 121) D
- 122) B
- 123) B
- 124) B
- 125) D
- 126) B
- 127) C
- 128) B
- 129) C
- 130) D
- 131) D
- 132) A
- 133) C
- 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 3 parts and serve 2 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.