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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

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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

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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

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

A) 16 B) 64 C) 2 D) 8

Answer: A

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

A) 66 B) 3 C) 11 D) 33

Answer: D

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

A) 36 B) 3 C) 75 D) 150

Answer: C

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

A) 49 B) 98 C) 7 D) 42

Answer: A

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

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

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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

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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)

$$\begin{array}{r} \frac{2}{15} \\ \frac{7}{10} \\ + \frac{1}{5} \\ \hline \end{array}$$

A) $\frac{1}{3}$ B) $\frac{13}{15}$ C) $1\frac{1}{30}$ D) $1\frac{8}{15}$

Answer: C

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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

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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

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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

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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

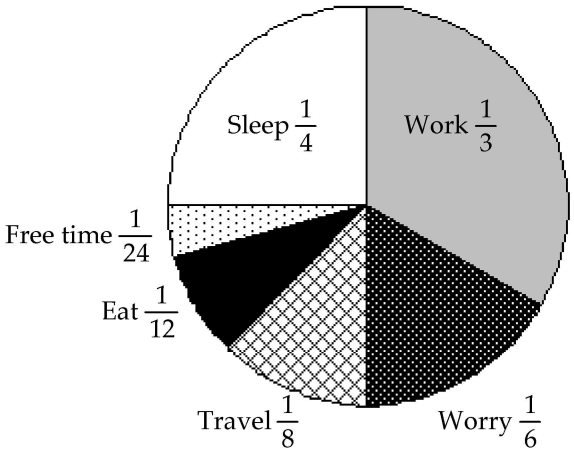
Answer: A

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

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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

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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

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Subtract. Write the answer in lowest terms.

82)

$$4\frac{2}{3}$$
$$-\ 2\frac{1}{5}$$

A) $2\frac{7}{15}$ B) $\frac{15}{37}$ C) $\frac{1}{5}$ D) $12\frac{1}{3}$

Answer: A

83)

$$16\frac{2}{7}$$
$$-\ 7\frac{6}{7}$$

A) $8\frac{2}{7}$ B) $23\frac{3}{7}$ C) $8\frac{3}{7}$ D) $22\frac{3}{7}$

Answer: C

84)

$$11\frac{1}{2}$$
$$-\ 9\frac{1}{3}$$

A) $2\frac{1}{6}$ B) $\frac{6}{13}$ C) $\frac{3}{4}$ D) 13

Answer: A

85)

$$2\frac{32}{64}$$
$$-\ 2\frac{20}{40}$$

A) 0 B) $\frac{3}{10}$ C) $\frac{1}{2}$ D) $\frac{3}{8}$

Answer: A

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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

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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

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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

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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

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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

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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

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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.

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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.

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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

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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

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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
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