

Name _____

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

Identify the numerator and denominator.

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

1) _____

A) Numerator: 6
Denominator: 1

B) Numerator: 1
Denominator: 6

C) Numerator: $\frac{6}{1}$
Denominator: 1

D) Numerator: 7
Denominator: 1

2) $\frac{7}{17}$

2) _____

A) Numerator: 7
Denominator: 17

B) Numerator: $\frac{7}{17}$
Denominator: 1

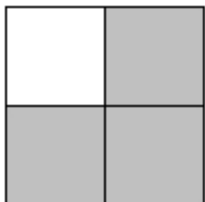
C) Numerator: 17
Denominator: 7

D) Numerator: 1
Denominator: $\frac{17}{7}$

What part of the object or set of objects is shaded?

3)

3) _____



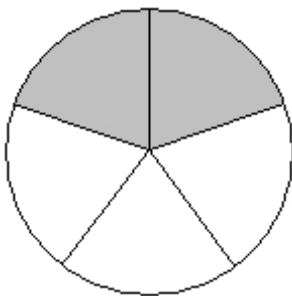
A) $\frac{3}{4}$

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

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

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

4)



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

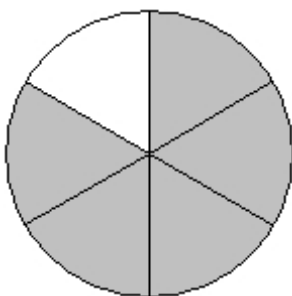
B) $\frac{5}{2}$

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

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

4) _____

5)



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

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

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

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

5) _____

6)



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

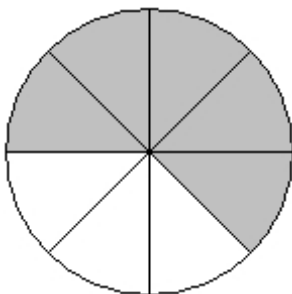
B) $\frac{5}{3}$

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

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

6) _____

7)



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

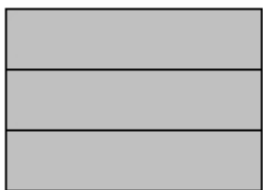
B) $\frac{5}{8}$

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

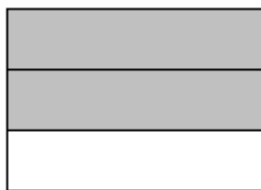
D) $\frac{3}{5}$

7) _____

8)



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



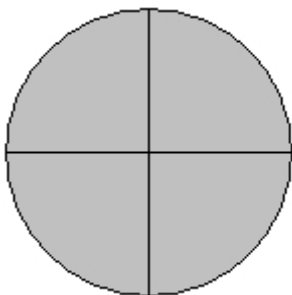
B) $\frac{5}{3}$

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

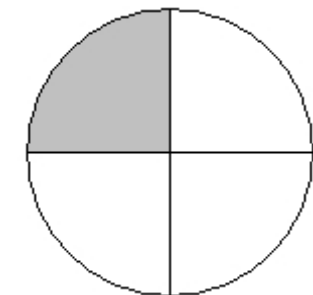
D) $\frac{5}{1}$

8) _____

9)



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



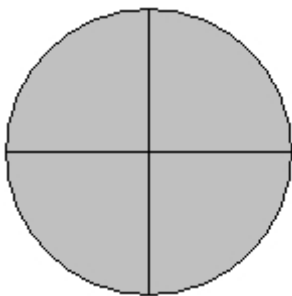
B) $\frac{5}{4}$

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

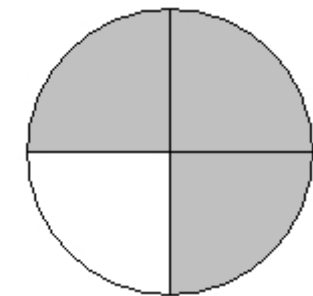
D) $\frac{5}{8}$

9) _____

10)



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



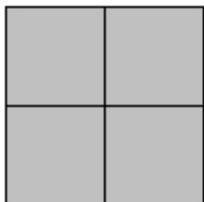
B) $\frac{7}{8}$

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

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

10) _____

11)



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



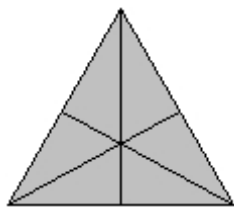
B) $\frac{1}{7}$

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

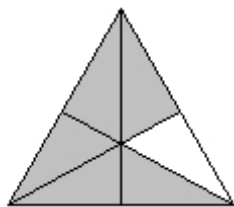
D) $\frac{7}{8}$

11) _____

12)



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



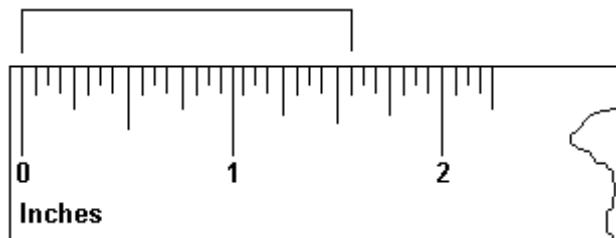
B) $\frac{11}{6}$

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

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

12) _____

13) What part of the inch is highlighted?



A) $\frac{24}{16}$

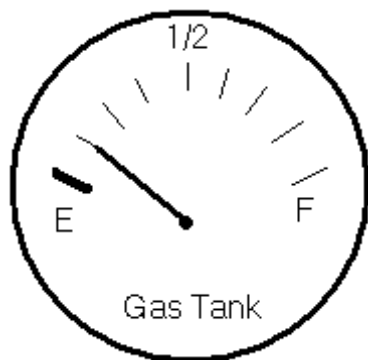
B) $\frac{15}{16}$

C) $\frac{21}{16}$

D) $\frac{25}{16}$

13) _____

14) Give fraction notation for the amount of gas in the tank and the amount used from a full tank.



A) $\frac{3}{8}; \frac{5}{8}$

B) $\frac{1}{8}; \frac{7}{8}$

C) $\frac{5}{8}; \frac{3}{8}$

D) $\frac{2}{8}; \frac{6}{8}$

14) _____

Simplify.

15) $\frac{0}{11}$

A) 0

B) Not defined

C) 1

D) 11

15) _____

16) $\frac{0}{528}$

A) 0

B) 1

C) 528

D) Not defined

16) _____

17) $\frac{20}{0}$ 17) _____

- A) $\frac{1}{20}$ B) 0 C) Not defined D) 20

18) $\frac{596}{0}$ 18) _____

- A) 596 B) 0 C) Not defined D) $\frac{1}{596}$

19) $\frac{2}{2}$ 19) _____

- A) 2 B) 1 C) Not defined D) 0

20) $\frac{82}{82}$ 20) _____

- A) 0 B) 82 C) Not defined D) 1

21) $\frac{2}{1}$ 21) _____

- A) 1 B) Not defined C) 0 D) 2

22) $\frac{274}{1}$ 22) _____

- A) 1 B) Not defined C) 0 D) 274

23) $\frac{16 - 16}{200}$ 23) _____

- A) 16 B) $\frac{1}{200}$ C) Not defined D) 0

24) $\frac{80}{62 - 62}$ 24) _____

- A) Not defined B) 0 C) $\frac{80}{62}$ D) 80

Multiply.

25) $\frac{1}{4} \cdot \frac{1}{2}$ 25) _____

- A) $\frac{1}{8}$ B) $\frac{1}{6}$ C) $\frac{2}{8}$ D) $\frac{2}{6}$

- 26) $\frac{1}{6} \times \frac{1}{2}$ 26) _____
 A) $\frac{1}{8}$ B) $\frac{2}{8}$ C) $\frac{2}{12}$ D) $\frac{1}{12}$
- 27) $\frac{5}{8} \cdot \frac{1}{6}$ 27) _____
 A) $\frac{5}{14}$ B) $\frac{1}{48}$ C) $\frac{6}{14}$ D) $\frac{5}{48}$
- 28) $\frac{1}{11} \times \frac{4}{11}$ 28) _____
 A) $\frac{4}{121}$ B) $\frac{4}{22}$ C) $\frac{5}{22}$ D) $\frac{16}{121}$
- 29) $\frac{4}{5} \cdot \frac{4}{9}$ 29) _____
 A) $\frac{8}{14}$ B) $\frac{16}{45}$ C) $\frac{4}{45}$ D) $\frac{1}{45}$
- 30) $\frac{13}{16} \cdot \frac{13}{16}$ 30) _____
 A) $\frac{26}{32}$ B) 1 C) $\frac{169}{256}$ D) $\frac{169}{16}$
- 31) $\frac{2}{7} \cdot \frac{5}{9}$ 31) _____
 A) $\frac{7}{16}$ B) $\frac{7}{63}$ C) $\frac{10}{35}$ D) $\frac{10}{63}$
- 32) $\frac{3}{8} \times \frac{5}{7}$ 32) _____
 A) $\frac{15}{40}$ B) $\frac{8}{56}$ C) $\frac{8}{15}$ D) $\frac{15}{56}$
- 33) $\frac{8}{93} \cdot \frac{2}{81}$ 33) _____
 A) $\frac{101}{110}$ B) $\frac{101}{1000}$ C) $\frac{16}{110}$ D) $\frac{16}{7533}$
- 34) $\frac{14}{15} \cdot \frac{11}{17}$ 34) _____
 A) $\frac{25}{32}$ B) $\frac{154}{255}$ C) $\frac{25}{255}$ D) $\frac{154}{32}$

- 35) $5 \cdot \frac{1}{7}$ 35) _____
 A) $\frac{1}{35}$ B) $\frac{6}{7}$ C) $\frac{5}{35}$ D) $\frac{5}{7}$
- 36) $\frac{1}{5} \times 3$ 36) _____
 A) $\frac{3}{15}$ B) $\frac{1}{15}$ C) $\frac{3}{5}$ D) $\frac{4}{5}$
- 37) $\frac{2}{5} \cdot 1$ 37) _____
 A) $\frac{2}{5}$ B) $\frac{3}{5}$ C) 1 D) $\frac{3}{6}$
- 38) $1 \times \frac{5}{7}$ 38) _____
 A) $\frac{5}{7}$ B) 1 C) $\frac{6}{8}$ D) $\frac{6}{7}$
- 39) $\frac{2}{11} \cdot 3$ 39) _____
 A) $\frac{5}{11}$ B) $\frac{6}{11}$ C) $\frac{6}{33}$ D) $\frac{2}{33}$
- 40) $10 \cdot \frac{5}{7}$ 40) _____
 A) $\frac{50}{7}$ B) $\frac{5}{70}$ C) $\frac{15}{7}$ D) $\frac{50}{70}$
- 41) $\frac{2}{9} \cdot 41$ 41) _____
 A) $\frac{82}{9}$ B) $\frac{2}{369}$ C) $\frac{43}{9}$ D) $\frac{82}{369}$
- 42) $37 \times \frac{2}{7}$ 42) _____
 A) $\frac{74}{7}$ B) $\frac{2}{259}$ C) $\frac{74}{259}$ D) $\frac{39}{7}$
- 43) $\frac{2}{9} \cdot 50$ 43) _____
 A) $\frac{100}{450}$ B) $\frac{100}{9}$ C) $\frac{2}{450}$ D) $\frac{52}{9}$

Find another name for the given number, but with the denominator indicated.

44) $\frac{1}{2} = \frac{?}{8}$ 44) _____
A) $\frac{4}{8}$ B) $\frac{6}{8}$ C) $\frac{2}{8}$ D) $\frac{5}{8}$

45) $\frac{7}{15} = \frac{?}{45}$ 45) _____
A) $\frac{315}{675}$ B) $\frac{7}{45}$ C) $\frac{21}{45}$ D) $\frac{105}{45}$

46) $\frac{15}{9} = \frac{?}{18}$ 46) _____
A) $\frac{135}{18}$ B) $\frac{270}{162}$ C) $\frac{30}{18}$ D) $\frac{15}{18}$

47) $\frac{11}{13} = \frac{?}{169}$ 47) _____
A) $\frac{121}{169}$ B) $\frac{11}{169}$ C) $\frac{143}{169}$ D) $\frac{24}{169}$

48) $\frac{7}{22} = \frac{?}{176}$ 48) _____
A) $\frac{7}{176}$ B) $\frac{15}{176}$ C) $\frac{154}{176}$ D) $\frac{56}{176}$

Simplify.

49) $\frac{3}{6}$ 49) _____
A) $\frac{1}{2}$ B) $\frac{3}{2}$ C) $\frac{1}{6}$ D) $\frac{2}{1}$

50) $\frac{4}{12}$ 50) _____
A) $\frac{1}{12}$ B) $\frac{2}{4}$ C) $\frac{1}{3}$ D) $\frac{2}{6}$

51) $\frac{35}{7}$ 51) _____
A) 5 B) $\frac{5}{7}$ C) $\frac{1}{5}$ D) $\frac{10}{2}$

$$52) \frac{90}{10} \qquad \qquad \qquad \text{A) } \frac{18}{2} \qquad \qquad \qquad \text{B) } 9 \qquad \qquad \qquad \text{C) } \frac{1}{9} \qquad \qquad \qquad \text{D) } \frac{9}{10} \qquad \qquad \qquad 52) \underline{\hspace{2cm}}$$

$$53) \frac{30}{48} \qquad \qquad \qquad \text{A) } \frac{5}{6} \qquad \qquad \qquad \text{B) } \frac{6}{8} \qquad \qquad \qquad \text{C) } \frac{5}{8} \qquad \qquad \qquad \text{D) } \frac{30}{48} \qquad \qquad \qquad 53) \underline{\hspace{2cm}}$$

$$54) \frac{30}{40} \qquad \qquad \qquad \text{A) } \frac{3}{4} \qquad \qquad \qquad \text{B) } \frac{30}{40} \qquad \qquad \qquad \text{C) } \frac{3}{10} \qquad \qquad \qquad \text{D) } \frac{10}{4} \qquad \qquad \qquad 54) \underline{\hspace{2cm}}$$

$$55) \frac{70}{112} \qquad \qquad \qquad \text{A) } \frac{5}{14} \qquad \qquad \qquad \text{B) } \frac{14}{8} \qquad \qquad \qquad \text{C) } \frac{70}{112} \qquad \qquad \qquad \text{D) } \frac{5}{8} \qquad \qquad \qquad 55) \underline{\hspace{2cm}}$$

$$56) \frac{60}{160} \qquad \qquad \qquad \text{A) } \frac{3}{8} \qquad \qquad \qquad \text{B) } \frac{20}{8} \qquad \qquad \qquad \text{C) } \frac{60}{160} \qquad \qquad \qquad \text{D) } \frac{3}{20} \qquad \qquad \qquad 56) \underline{\hspace{2cm}}$$

$$57) \frac{68}{76} \qquad \qquad \qquad \text{A) } \frac{17}{4} \qquad \qquad \qquad \text{B) } \frac{4}{19} \qquad \qquad \qquad \text{C) } \frac{17}{19} \qquad \qquad \qquad \text{D) } \frac{68}{76} \qquad \qquad \qquad 57) \underline{\hspace{2cm}}$$

$$58) \frac{432}{689} \qquad \qquad \qquad \text{A) } \frac{432}{689} \qquad \qquad \qquad \text{B) } \frac{144}{689} \qquad \qquad \qquad \text{C) } \frac{144}{229} \qquad \qquad \qquad \text{D) } \frac{229}{144} \qquad \qquad \qquad 58) \underline{\hspace{2cm}}$$

Multiply and simplify.

$$59) \frac{3}{8} \cdot \frac{1}{3} \qquad \qquad \qquad \text{A) } \frac{4}{11} \qquad \qquad \qquad \text{B) } \frac{3}{24} \qquad \qquad \qquad \text{C) } \frac{1}{8} \qquad \qquad \qquad \text{D) } \frac{3}{11} \qquad \qquad \qquad 59) \underline{\hspace{2cm}}$$

$$60) \frac{1}{16} \cdot \frac{8}{9} \qquad \qquad \qquad \text{A) } \frac{9}{25} \qquad \qquad \qquad \text{B) } \frac{8}{17} \qquad \qquad \qquad \text{C) } \frac{1}{18} \qquad \qquad \qquad \text{D) } \frac{8}{144} \qquad \qquad \qquad 60) \underline{\hspace{2cm}}$$

- 61) $\frac{6}{8} \cdot \frac{1}{8}$ 61) _____
 A) $\frac{3}{512}$ B) $\frac{3}{32}$ C) 6 D) $\frac{7}{16}$
- 62) $\frac{11}{5} \cdot \frac{15}{14}$ 62) _____
 A) $\frac{14}{15}$ B) $\frac{26}{19}$ C) $\frac{165}{70}$ D) $\frac{33}{14}$
- 63) $\frac{13}{5} \cdot \frac{15}{14}$ 63) _____
 A) $\frac{39}{14}$ B) $\frac{14}{15}$ C) $\frac{195}{70}$ D) $\frac{28}{19}$
- 64) $\frac{14}{30} \cdot \frac{5}{2}$ 64) _____
 A) $\frac{35}{12}$ B) $\frac{70}{60}$ C) $\frac{7}{6}$ D) $\frac{19}{42}$
- 65) $\frac{5}{18} \cdot \frac{9}{18}$ 65) _____
 A) $\frac{5}{9}$ B) $\frac{5}{36}$ C) $\frac{5}{4}$ D) $\frac{7}{18}$
- 66) $\frac{4}{10} \cdot \frac{24}{160}$ 66) _____
 A) $\frac{14}{85}$ B) $\frac{3}{50}$ C) $\frac{7}{400}$ D) $\frac{96}{1600}$
- 67) $\frac{17}{21} \cdot \frac{3}{5}$ 67) _____
 A) $\frac{10}{11}$ B) $\frac{51}{105}$ C) $\frac{4}{21}$ D) $\frac{17}{35}$
- 68) $\frac{13}{2} \cdot \frac{2}{13}$ 68) _____
 A) $\frac{4}{169}$ B) 1 C) 0 D) $\frac{169}{4}$
- 69) $5 \cdot \frac{1}{5}$ 69) _____
 A) $\frac{5}{25}$ B) 25 C) $\frac{1}{25}$ D) 1

70) $6 \cdot \frac{1}{2}$

70) _____

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

B) $\frac{6}{12}$

C) 3

D) 12

71) $20 \cdot \frac{4}{5}$

71) _____

A) 16

B) $\frac{101}{25}$

C) $\frac{80}{5}$

D) 20

72) $14 \cdot \frac{4}{5}$

72) _____

A) $\frac{4}{70}$

B) $\frac{56}{70}$

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

D) 70

73) $\frac{5}{12} \cdot 27$

73) _____

A) $\frac{45}{4}$

B) $\frac{5}{324}$

C) $\frac{135}{27}$

D) $\frac{135}{324}$

74) $\frac{1}{9} \cdot 270$

74) _____

A) $\frac{270}{2430}$

B) $\frac{270}{9}$

C) 3

D) 30

75) $\frac{2}{3} \cdot 210$

75) _____

A) $\frac{44102}{3}$

B) 120

C) $\frac{420}{3}$

D) 140

Find the reciprocal.

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

76) _____

A) 7

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

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

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

77) 4

77) _____

A) 4

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

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

D) 1

78) 16

78) _____

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

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

C) 1

D) 16

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

A) 1

B) 5

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

D) 0

79) _____

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

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

B) 0

C) 1

D) 20

80) _____

81) $\frac{14}{9}$

A) $\frac{9}{14}$ B) $\frac{1}{14}$ C) $\frac{9}{1}$

D) 9

81) _____

Divide and simplify.

82) $\frac{3}{4} \div \frac{6}{7}$

A) $\frac{9}{14}$ B) $\frac{7}{8}$ C) $\frac{8}{7}$ D) $\frac{14}{9}$

82) _____

83) $\frac{3}{8} \div \frac{7}{5}$

A) $\frac{56}{15}$ B) $\frac{15}{56}$ C) $\frac{21}{40}$ D) $\frac{40}{21}$

83) _____

84) $\frac{5}{3} \div \frac{1}{3}$

A) $\frac{9}{5}$ B) $\frac{5}{9}$ C) $\frac{1}{5}$

D) 5

84) _____

85) $\frac{3}{4} \div 8$

A) $\frac{3}{4}$ B) $\frac{9}{20}$

C) None of these

D) $\frac{3}{32}$

85) _____

86) $\frac{12}{7} \div 2$

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

D) 6

86) _____

87) $20 \div \frac{5}{7}$

A) 4

B) $\frac{1}{28}$ C) $\frac{100}{7}$

D) 28

87) _____

88) $25 \div \frac{5}{7}$ 88) _____

A) $\frac{125}{7}$ B) 5 C) 35 D) $\frac{1}{35}$

89) $\frac{5}{11} \div \frac{15}{77}$ 89) _____

A) $\frac{3}{7}$ B) $\frac{35}{3}$ C) $\frac{75}{847}$ D) $\frac{7}{3}$

Solve and simplify.

90) $\frac{6}{7} \cdot t = 108$ 90) _____

A) 126 B) 108 C) 25 D) 324

91) $\frac{3}{2} \cdot x = 33$ 91) _____

A) 22 B) 33 C) 13 D) 50

92) $\frac{7}{3} \cdot y = \frac{21}{3}$ 92) _____

A) $\frac{49}{3}$ B) 3 C) 21 D) $\frac{1}{3}$

93) $\frac{7}{4} \cdot n = \frac{21}{2}$ 93) _____

A) $\frac{1}{6}$ B) $\frac{147}{8}$ C) 6 D) 3

94) $\frac{6}{7} \cdot x = \frac{24}{35}$ 94) _____

A) $\frac{5}{6}$ B) $\frac{210}{24}$ C) $\frac{4}{5}$ D) $\frac{144}{1225}$

95) $\frac{6}{7} \cdot t = 114$ 95) _____

A) 342 B) 114 C) 133 D) 26

96) $\frac{7}{2} \cdot x = 112$ 96) _____

A) 18 B) 112 C) 392 D) 32

$$97) k \cdot \frac{15}{32} = \frac{5}{24}$$

$$A) \frac{25}{1024}$$

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

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

$$D) \frac{160}{360}$$

97) _____

$$98) x \cdot \frac{12}{27} = \frac{18}{45}$$

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

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

$$C) \frac{486}{540}$$

$$D) \frac{8}{45}$$

98) _____

Add and simplify.

$$99) \frac{4}{9} + \frac{5}{9}$$

$$A) \frac{9}{18}$$

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

$$C) 1$$

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

99) _____

$$100) \frac{7}{9} + \frac{1}{9}$$

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

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

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

$$D) \frac{9}{10}$$

100) _____

$$101) \frac{2}{7} + \frac{4}{7}$$

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

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

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

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

101) _____

$$102) \frac{3}{29} + \frac{9}{29}$$

$$A) \frac{11}{29}$$

$$B) \frac{11}{28}$$

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

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

102) _____

$$103) \frac{5}{24} + \frac{5}{24}$$

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

$$B) \frac{4}{11}$$

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

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

103) _____

$$104) \frac{19}{66} + \frac{10}{66}$$

$$A) \frac{30}{67}$$

$$B) \frac{28}{66}$$

$$C) \frac{28}{65}$$

$$D) \frac{29}{66}$$

104) _____

$$105) \frac{3}{4} + \frac{1}{16}$$

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

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

$$C) \frac{53}{64}$$

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

105) _____

106) $\frac{3}{5} + \frac{2}{7}$ 106) _____
 A) $\frac{31}{35}$ B) $\frac{32}{35}$ C) $\frac{5}{7}$ D) $\frac{5}{12}$

107) $\frac{3}{4} + \frac{1}{20}$ 107) _____
 A) 1 B) $\frac{1}{5}$ C) $\frac{4}{5}$ D) $\frac{1}{6}$

108) $\frac{5}{4} + \frac{1}{12}$ 108) _____
 A) $\frac{4}{3}$ B) $\frac{1}{2}$ C) $\frac{3}{2}$ D) 4

109) $\frac{2}{3} + \frac{1}{12}$ 109) _____
 A) $\frac{1}{4}$ B) $\frac{7}{12}$ C) $\frac{9}{12}$ D) $\frac{3}{4}$

110) $\frac{1}{5} + \frac{1}{15}$ 110) _____
 A) $\frac{4}{5}$ B) $\frac{2}{15}$ C) $\frac{4}{15}$ D) $\frac{1}{10}$

111) $\frac{7}{10} + \frac{37}{100}$ 111) _____
 A) $\frac{2}{5}$ B) $\frac{107}{100}$ C) $\frac{11}{25}$ D) $\frac{107}{10}$

112) $\frac{1}{6} + \frac{1}{4}$ 112) _____
 A) $\frac{1}{3}$ B) $\frac{5}{12}$ C) $\frac{1}{4}$ D) $\frac{1}{6}$

113) $\frac{8}{5} + \frac{0}{3}$ 113) _____
 A) $\frac{8}{5}$ B) 1 C) $\frac{29}{15}$ D) 0

Add and simplify.

114) $\frac{6}{14} + \frac{1}{14} + \frac{2}{14}$ 114) _____
 A) $\frac{9}{14}$ B) $\frac{9}{42}$ C) $\frac{12}{14}$ D) $\frac{12}{2744}$

$$115) \frac{19}{52} + \frac{10}{52} + \frac{9}{52}$$

$$A) \frac{19}{26}$$

$$B) \frac{54}{52}$$

$$C) \frac{19}{156}$$

$$D) \frac{29}{52}$$

115) _____

Add and simplify.

$$116) \frac{4}{10} + \frac{9}{100} + \frac{1}{1000}$$

$$A) \frac{491}{1000}$$

$$B) \frac{1301}{1000}$$

$$C) \frac{7}{500}$$

$$D) \frac{131}{1000}$$

116) _____

$$117) \frac{5}{8} + \frac{5}{14} + \frac{3}{18}$$

$$A) \frac{13}{168}$$

$$B) \frac{193}{168}$$

$$C) \frac{193}{84}$$

$$D) \frac{23}{56}$$

117) _____

$$118) \frac{12}{18} + \frac{8}{27} + \frac{14}{36}$$

$$A) \frac{53}{12}$$

$$B) \frac{73}{54}$$

$$C) \frac{17}{108}$$

$$D) \frac{73}{27}$$

118) _____

$$119) \frac{1}{2} + \frac{7}{8} + \frac{2}{4}$$

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

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

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

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

119) _____

$$120) \frac{3}{10} + \frac{33}{100} + \frac{155}{1000}$$

$$A) \frac{191}{1000}$$

$$B) \frac{103}{200}$$

$$C) \frac{751}{200}$$

$$D) \frac{157}{200}$$

120) _____

Subtract and simplify.

$$121) \frac{4}{8} - \frac{1}{8}$$

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

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

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

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

121) _____

$$122) \frac{9}{10} - \frac{7}{10}$$

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

$$B) \frac{2}{0}$$

$$C) \frac{2}{20}$$

$$D) \frac{2}{10}$$

122) _____

- 123) $\frac{41}{44} - \frac{32}{44}$ 123) _____
 A) $29\frac{9}{11}$ B) $\frac{9}{88}$ C) $\frac{9}{44}$ D) $1\frac{29}{44}$
- 124) $\frac{1}{6} - \frac{1}{13}$ 124) _____
 A) $\frac{7}{78}$ B) $\frac{7}{6}$ C) $\frac{1}{6}$ D) $\frac{1}{78}$
- 125) $\frac{7}{8} - \frac{2}{4}$ 125) _____
 A) $\frac{3}{2}$ B) $\frac{5}{8}$ C) $\frac{5}{32}$ D) $\frac{3}{8}$
- 126) $\frac{3}{4} - \frac{1}{12}$ 126) _____
 A) $\frac{1}{4}$ B) $\frac{2}{3}$ C) 2 D) $\frac{1}{6}$
- 127) $\frac{5}{7} - \frac{1}{14}$ 127) _____
 A) $\frac{4}{7}$ B) $\frac{11}{14}$ C) $\frac{9}{14}$ D) $\frac{2}{7}$
- 128) $\frac{9}{10} - \frac{29}{100}$ 128) _____
 A) $\frac{61}{10}$ B) $\frac{61}{100}$ C) $\frac{2}{9}$ D) $\frac{1}{5}$
- 129) $\frac{8}{15} - \frac{1}{10}$ 129) _____
 A) $\frac{65}{150}$ B) $\frac{13}{30}$ C) $\frac{7}{15}$ D) $\frac{7}{30}$
- 130) $\frac{11}{15} - \frac{7}{25}$ 130) _____
 A) $\frac{2}{5}$ B) $\frac{1}{5}$ C) $\frac{4}{25}$ D) $\frac{34}{75}$
- 131) $\frac{23}{120} - \frac{7}{150}$ 131) _____
 A) $\frac{8}{15}$ B) $\frac{29}{200}$ C) $\frac{37}{200}$ D) $\frac{8}{75}$

Use < or > for $\square$ to write a true sentence.

132) $\frac{7}{8} \square \frac{5}{8}$

A) >

B) <

132) _____

133) $\frac{1}{3} \square \frac{1}{2}$

A) >

B) <

133) _____

134) $\frac{2}{3} \square \frac{6}{8}$

A) >

B) <

134) _____

135) $\frac{3}{8} \square \frac{3}{11}$

A) >

B) <

135) _____

136) $\frac{4}{7} \square \frac{7}{10}$

A) <

B) >

136) _____

137) $\frac{1}{8} \square \frac{8}{24}$

A) <

B) >

137) _____

138) $\frac{1}{12} \square \frac{1}{3}$

A) <

B) >

138) _____

139) $\frac{11}{5} \square \frac{84}{40}$

A) >

B) <

139) _____

140) $\frac{15}{8} \square \frac{35}{17}$

A) >

B) <

140) _____

Solve and simplify.

141) $\frac{1}{14} + x = \frac{5}{14}$

A) $x = \frac{2}{7}$

B) $x = \frac{4}{0}$

C) $x = \frac{4}{28}$

D) $x = \frac{4}{14}$

141) _____

- 142) $x + \frac{2}{7} = \frac{5}{14}$ 142) _____
 A) $x = -\frac{1}{14}$ B) $x = \frac{9}{14}$ C) $x = \frac{1}{7}$ D) $x = \frac{1}{14}$
- 143) $x + \frac{1}{7} = \frac{2}{7}$ 143) _____
 A) $x = \frac{5}{7}$ B) $x = \frac{1}{7}$ C) $x = \frac{4}{7}$ D) $x = \frac{3}{7}$
- 144) $\frac{2}{3} + y = \frac{5}{6}$ 144) _____
 A) $y = \frac{1}{6}$ B) $y = 1$ C) $y = \frac{1}{2}$ D) $y = \frac{3}{2}$
- 145) $x + \frac{1}{4} = \frac{4}{5}$ 145) _____
 A) $x = \frac{1}{4}$ B) $x = \frac{3}{5}$ C) $x = \frac{3}{20}$ D) $x = \frac{11}{20}$
- 146) $y + \frac{4}{5} = \frac{15}{16}$ 146) _____
 A) $y = -\frac{17}{16}$ B) $y = -\frac{17}{40}$ C) $y = \frac{47}{40}$ D) $y = \frac{11}{80}$
- 147) $\frac{4}{6} + m = \frac{8}{9}$ 147) _____
 A) $m = \frac{4}{9}$ B) $m = \frac{2}{9}$ C) $m = \frac{2}{27}$ D) $m = \frac{4}{3}$
- 148) $p + \frac{1}{9} = \frac{4}{15}$ 148) _____
 A) $p = \frac{1}{5}$ B) $p = \frac{7}{45}$ C) $p = \frac{1}{15}$ D) $p = \frac{21}{135}$
- 149) $y + \frac{7}{30} = \frac{11}{18}$ 149) _____
 A) $y = \frac{1}{5}$ B) $y = \frac{1}{3}$ C) $y = \frac{2}{15}$ D) $y = \frac{17}{45}$

Solve the problem.

150) Annie is packing for her trip to Hawaii. Her suitcase measures $25\frac{2}{3}$ in. $\times$ $17\frac{1}{4}$ in. $\times$ $7\frac{4}{5}$ in. Convert 150) _____

$25\frac{2}{3}$, $17\frac{1}{4}$, and $7\frac{4}{5}$ to fraction notation.

A) $\frac{77}{3}$, $\frac{69}{4}$, $\frac{39}{5}$

B) $\frac{77}{75}$, $\frac{69}{68}$, $\frac{39}{35}$

C) $\frac{77}{25}$, $\frac{69}{17}$, $\frac{39}{7}$

D) $9\frac{9}{2}$, $\frac{11}{5}$

151) Johnny's Bakery cuts their blueberry pies into 6 slices and their pizzas into 12 slices. On a busy 151) _____
Saturday, they sold 59 slices of blueberry pie, or $\frac{59}{6}$ pies, and 125 slices of pizza, or $\frac{125}{12}$ pizzas.

Convert $\frac{59}{6}$ and $\frac{125}{12}$ to mixed numerals.

A) $9\frac{5}{59}$, $10\frac{5}{125}$

B) $59\frac{5}{6}$, $125\frac{5}{12}$

C) $9\frac{5}{6}$, $10\frac{5}{12}$

D) $9\frac{9}{59}$, $10\frac{10}{125}$

Convert to fraction notation.

152) $2\frac{3}{4}$ 152) _____

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

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

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

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

153) $8\frac{3}{7}$ 153) _____

A) $\frac{59}{7}$

B) $\frac{56}{7}$

C) $\frac{59}{3}$

D) $\frac{56}{3}$

154) $11\frac{1}{6}$ 154) _____

A) $\frac{67}{66}$

B) $\frac{67}{6}$

C) $\frac{67}{11}$

D) 2

155) $16\frac{1}{4}$ 155) _____

A) $\frac{65}{16}$

B) $\frac{65}{4}$

C) $\frac{65}{64}$

D) $\frac{17}{4}$

156) $9\frac{2}{3}$ 156) _____

A) $\frac{27}{3}$

B) $\frac{27}{2}$

C) $\frac{29}{3}$

D) $\frac{29}{2}$

157) $13\frac{1}{10}$ 157) _____
 A) $\frac{141}{10}$ B) $\frac{131}{10}$ C) $\frac{13}{10}$ D) $\frac{14}{10}$

158) $7\frac{19}{100}$ 158) _____
 A) $\frac{133}{100}$ B) $\frac{719}{100}$ C) $\frac{833}{100}$ D) $\frac{26}{100}$

159) $23\frac{3}{5}$ 159) _____
 A) 38 B) 345 C) $\frac{69}{5}$ D) $\frac{118}{5}$

160) $72\frac{2}{5}$ 160) _____
 A) $\frac{144}{5}$ B) $\frac{362}{5}$ C) $\frac{74}{5}$ D) $\frac{720}{5}$

161) $109\frac{3}{16}$ 161) _____
 A) $\frac{5232}{16}$ B) 7 C) $\frac{327}{16}$ D) $\frac{1747}{16}$

162) $222\frac{3}{6}$ 162) _____
 A) 111 B) $\frac{445}{2}$ C) 225 D) 666

Convert to a mixed numeral.

163) $\frac{25}{3}$ 163) _____
 A) $\frac{1}{3}$ B) $9\frac{1}{3}$ C) $8\frac{1}{3}$ D) $7\frac{1}{7}$

164) $\frac{31}{4}$ 164) _____
 A) $6\frac{3}{4}$ B) $7\frac{3}{7}$ C) $7\frac{3}{4}$ D) $8\frac{3}{4}$

165) $\frac{41}{5}$ 165) _____
 A) $7\frac{1}{5}$ B) $8\frac{1}{5}$ C) $9\frac{1}{5}$ D) $8\frac{1}{7}$

$$166) \frac{10}{3} \qquad \qquad \qquad 166) \underline{\hspace{2cm}}$$

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

$$167) \frac{50}{8} \qquad \qquad \qquad 167) \underline{\hspace{2cm}}$$

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

$$168) \frac{60}{7} \qquad \qquad \qquad 168) \underline{\hspace{2cm}}$$

- A) $\frac{7}{60}$ B) $60\frac{60}{7}$ C) $8\frac{4}{7}$ D) $60\frac{7}{60}$

$$169) \frac{36}{32} \qquad \qquad \qquad 169) \underline{\hspace{2cm}}$$

- A) $1\frac{1}{4}$ B) $2\frac{1}{8}$ C) $\frac{9}{8}$ D) $1\frac{1}{8}$

$$170) \frac{613}{100} \qquad \qquad \qquad 170) \underline{\hspace{2cm}}$$

- A) 6 B) $5\frac{13}{100}$ C) $7\frac{3}{10}$ D) $6\frac{13}{100}$

$$171) \frac{249}{11} \qquad \qquad \qquad 171) \underline{\hspace{2cm}}$$

- A) $\frac{11}{249}$ B) $22\frac{7}{11}$ C) $249\frac{249}{11}$ D) $249\frac{11}{249}$

Add. Write a mixed numeral for the answer.

$$172) \begin{array}{r} 3 \\ + 1\frac{3}{8} \\ \hline \end{array} \qquad \qquad \qquad 172) \underline{\hspace{2cm}}$$

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

$$173) 4\frac{4}{7} + 1\frac{6}{7} \qquad \qquad \qquad 173) \underline{\hspace{2cm}}$$

- A) $5\frac{10}{7}$ B) $6\frac{3}{7}$ C) $5\frac{4}{7}$ D) $5\frac{3}{7}$

- 174) $4\frac{1}{4} + 8\frac{2}{3}$ 174) _____
- A) $12\frac{11}{12}$ B) $13\frac{11}{12}$ C) $4\frac{11}{12}$ D) $11\frac{11}{12}$
- 175) $21\frac{1}{2}$ 175) _____
- $+ 19\frac{1}{3}$
- _____
- A) $41\frac{5}{6}$ B) $21\frac{5}{6}$ C) $40\frac{5}{6}$ D) $39\frac{5}{6}$
- 176) $5\frac{7}{9}$ 176) _____
- $+ 1\frac{2}{9}$
- _____
- A) $7\frac{1}{9}$ B) $2\frac{1}{9}$ C) 6 D) 7
- 177) $2\frac{3}{4}$ 177) _____
- $+ 3\frac{13}{16}$
- _____
- A) $6\frac{9}{16}$ B) $5\frac{9}{16}$ C) 6 D) $5\frac{25}{16}$
- 178) $6\frac{5}{6}$ 178) _____
- $+ 2\frac{3}{10}$
- _____
- A) $8\frac{68}{60}$ B) $8\frac{2}{15}$ C) $9\frac{2}{15}$ D) $8\frac{23}{60}$
- 179) 179) _____
- 80
- $+ 7\frac{1}{7}$
- _____
- A) $72\frac{6}{7}$ B) $73\frac{1}{7}$ C) $87\frac{6}{7}$ D) $87\frac{1}{7}$

180)

$$\begin{array}{r} 5006\frac{3}{4} \\ + 78 \\ \hline \end{array}$$

A) $5074\frac{1}{4}$

B) $4928\frac{3}{4}$

C) $4928\frac{1}{4}$

D) $5084\frac{3}{4}$

180) _____

181)

$$\begin{array}{r} 16\frac{5}{8} \\ 11\frac{7}{8} \\ + 16\frac{7}{8} \\ \hline \end{array}$$

A) 45

B) $46\frac{3}{8}$

C) $45\frac{3}{8}$

D) $44\frac{3}{8}$

181) _____

182)

$$\begin{array}{r} 16\frac{5}{7} \\ 10\frac{1}{3} \\ + \frac{1}{3} \\ \hline \end{array}$$

A) $26\frac{8}{21}$

B) $27\frac{1}{2}$

C) $28\frac{8}{21}$

D) $27\frac{8}{21}$

182) _____

183) $19\frac{8}{9} + 11\frac{1}{6} + \frac{1}{2}$

A) $31\frac{5}{9}$

B) $31\frac{1}{2}$

C) $30\frac{5}{9}$

D) $32\frac{5}{9}$

183) _____

$1\frac{1}{6}$

$1\frac{1}{12}$

184) $+ 2\frac{1}{6}$

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

B) $4\frac{1}{8}$

C) $4\frac{1}{24}$

D) $4\frac{5}{12}$

184) _____

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

$$3\frac{3}{10}$$

$$185) \quad \begin{array}{r} + 2\frac{2}{5} \\ \hline \end{array}$$

185) _____

A) $8\frac{19}{20}$

B) $9\frac{19}{20}$

C) $8\frac{6}{19}$

D) $8\frac{17}{10}$

$$186) \quad 2\frac{1}{4} + 3\frac{3}{8} + 3\frac{5}{12}$$

186) _____

A) $9\frac{1}{24}$

B) $9\frac{1}{96}$

C) $8\frac{1}{24}$

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

$$187) \quad 3\frac{3}{4} + 1\frac{11}{12} + 6\frac{4}{5}$$

187) _____

A) $12\frac{37}{15}$

B) $592\frac{7}{15}$

C) $10\frac{6}{7}$

D) $12\frac{7}{15}$

Subtract. Write a mixed numeral for the answer.

$$188) \quad 16\frac{6}{13} - 6\frac{3}{13}$$

188) _____

A) $22\frac{3}{13}$

B) $10\frac{3}{13}$

C) $10\frac{9}{26}$

D) $10\frac{9}{13}$

189)

189) _____

$$\begin{array}{r} 17\frac{1}{3} \\ - 9\frac{2}{3} \\ \hline \end{array}$$

A) $7\frac{2}{3}$

B) $26\frac{2}{3}$

C) $7\frac{1}{3}$

D) $25\frac{2}{3}$

$$190) \quad 20\frac{4}{7} - 7\frac{1}{3}$$

190) _____

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

B) $13\frac{11}{21}$

C) $12\frac{11}{21}$

D) $13\frac{5}{21}$

191)

$$\begin{array}{r} 11 \\ - 4\frac{5}{7} \\ \hline \end{array}$$

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

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

C) $6\frac{2}{7}$

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

191) _____

192)

$$\begin{array}{r} 19\frac{1}{6} \\ - \frac{20}{30} \\ \hline \end{array}$$

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

B) 18

C) $17\frac{1}{2}$

D) $18\frac{1}{2}$

192) _____

193)

$$\begin{array}{r} 14\frac{5}{8} \\ - 2 \\ \hline \end{array}$$

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

B) $68\frac{5}{8}$

C) $12\frac{5}{8}$

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

193) _____

194)

$$\begin{array}{r} 16\frac{3}{7} \\ - \frac{13}{28} \\ \hline \end{array}$$

A) $15\frac{27}{28}$

B) $16\frac{27}{28}$

C) $14\frac{27}{28}$

D) 15

194) _____

195)

$$\begin{array}{r} 11\frac{1}{2} \\ - 4\frac{4}{5} \\ \hline \end{array}$$

A) 7

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

C) $6\frac{17}{10}$

D) $6\frac{7}{10}$

195) _____

196)

$$\begin{array}{r} 18\frac{1}{6} \\ - 5\frac{7}{12} \\ \hline \end{array}$$

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

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

C) $12\frac{13}{18}$

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

196) _____

197)

$$\begin{array}{r} 34\frac{1}{30} \\ - 13\frac{2}{25} \\ \hline \end{array}$$

A) $21\frac{7}{150}$

B) $20\frac{139}{150}$

C) $20\frac{143}{150}$

D) $21\frac{143}{150}$

197) _____

Multiply. Write a mixed numeral for the answer.

198) $7\frac{2}{3} \cdot 6$

A) 126

B) $13\frac{2}{3}$

C) 42

D) 46

198) _____

199) $4 \cdot 3\frac{7}{16}$

A) $12\frac{7}{16}$

B) $12\frac{3}{4}$

C) 12

D) $13\frac{3}{4}$

199) _____

200) $2\frac{4}{7} \cdot \frac{2}{9}$

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

B) $2\frac{8}{63}$

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

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

200) _____

201) $6\frac{3}{4} \cdot 2\frac{2}{3}$

A) 18

B) 19

C) 17

D) $12\frac{6}{12}$

201) _____

202) $3\frac{5}{9} \cdot 4\frac{1}{2}$

A) 12

B) 15

C) 16

D) 10

202) _____

203) $2\frac{1}{4} \cdot 3\frac{3}{4}$ 203) _____
 A) $8\frac{7}{16}$ B) $6\frac{15}{16}$ C) $7\frac{11}{16}$ D) $6\frac{3}{16}$

204) $4\frac{2}{3} \cdot 2\frac{1}{6}$ 204) _____
 A) $10\frac{1}{9}$ B) $16\frac{1}{9}$ C) $8\frac{7}{9}$ D) $8\frac{1}{9}$

205) $2\frac{2}{5} \cdot 4\frac{3}{5}$ 205) _____
 A) $11\frac{1}{25}$ B) $9\frac{11}{25}$ C) $8\frac{6}{25}$ D) $9\frac{1}{5}$

206) $5 \cdot 1\frac{2}{7} \cdot \frac{2}{5}$ 206) _____
 A) $1\frac{4}{7}$ B) $4\frac{2}{7}$ C) $2\frac{4}{7}$ D) $2\frac{3}{7}$

207) $7\frac{2}{3} \cdot 6\frac{1}{2} \cdot 6\frac{1}{4}$ 207) _____
 A) $311\frac{11}{24}$ B) $252\frac{1}{12}$ C) $255\frac{23}{24}$ D) $\frac{1}{8}$

Divide. Write a mixed numeral for the answer.

208) $24 \div 8\frac{2}{3}$ 208) _____
 A) $3\frac{2}{3}$ B) $2\frac{11}{13}$ C) $2\frac{10}{13}$ D) 208

209) $49 \div 1\frac{2}{5}$ 209) _____
 A) 34 B) 35 C) 36 D) $33\frac{1}{2}$

210) $3\frac{3}{5} \div 6$ 210) _____
 A) $\frac{3}{5}$ B) $\frac{2}{5}$ C) $\frac{3}{4}$ D) $\frac{4}{5}$

211) $5\frac{2}{3} \div 3\frac{1}{7}$ 211) _____
 A) $1\frac{53}{66}$ B) $1\frac{53}{65}$ C) $2\frac{53}{66}$ D) $1\frac{54}{66}$

212) $5\frac{1}{2} \div 5\frac{1}{9}$ 212) _____

A) $1\frac{7}{92}$

B) $1\frac{7}{91}$

C) $1\frac{8}{92}$

D) $2\frac{7}{92}$

213) $5\frac{6}{7} \div 4\frac{3}{7}$ 213) _____

A) $2\frac{10}{31}$

B) $1\frac{10}{31}$

C) $1\frac{10}{30}$

D) $1\frac{11}{31}$

214) $5\frac{5}{9} \div 4\frac{2}{7}$ 214) _____

A) $2\frac{8}{27}$

B) $1\frac{8}{27}$

C) $1\frac{9}{27}$

D) $1\frac{8}{26}$

215) $2\frac{1}{7} \div \frac{3}{7}$ 215) _____

A) 5

B) 4

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

D) 6

216) $26\frac{2}{3} \div 4$ 216) _____

A) $106\frac{2}{3}$

B) $6\frac{2}{3}$

C) $\frac{3}{20}$

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

Solve.

217) A rectangular sheet of paper measures $\frac{1}{7}$ ft by $\frac{2}{3}$ ft. What is its area? 217) _____

A) $\frac{3}{3}$ ft²

B) $\frac{3}{10}$ ft²

C) $\frac{2}{21}$ ft²

D) $\frac{3}{21}$ ft²

218) Each piece of pizza is $\frac{1}{10}$ of the pizza. What fraction of the pizza is $\frac{1}{3}$ of a piece? 218) _____

A) $\frac{2}{30}$

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

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

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

219) One of 13 initial applicants for a certain job will receive a first interview. Of those who receive a first interview, one of 9 will receive a second interview. What fraction of initial applicants will receive a second interview? 219) _____

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

B) $\frac{1}{117}$

C) $\frac{1}{22}$

D) $\frac{2}{117}$

- 220) Greg's water bottle can hold $\frac{7}{9}$ L. When he starts on his bicycle race, his water bottle is $\frac{2}{5}$ full. 220) _____
How much water does he have?
A) $\frac{9}{14}$ L B) $\frac{14}{14}$ L C) $\frac{14}{45}$ L D) $\frac{9}{5}$ L
- 221) $\frac{1}{5}$ of Mary's earned income is deducted from her paycheck for withholdings. $\frac{3}{4}$ of the 221) _____
withholdings are for taxes. What fraction of Mary's earned income is deducted for taxes?
A) $\frac{4}{9}$ B) $\frac{1}{5}$ C) $\frac{4}{15}$ D) $\frac{3}{20}$
- 222) It takes $\frac{3}{5}$ lb of flour to make a cake. How much flour is needed to make 4 cakes? 222) _____
A) $\frac{7}{5}$ lb B) $\frac{12}{5}$ lb C) $\frac{12}{20}$ lb D) $\frac{3}{20}$ lb
- 223) Julia preheated her oven for 19 minutes. What fraction of an hour was this? (1 hour = 60 min) 223) _____
A) $\frac{18}{60}$ hr B) $\frac{19}{60}$ hr C) $\frac{60}{19}$ hr D) $\frac{19}{24}$ hr
- 224) Mr. Rivera opened a package of 75 drinking cups for his restaurant. During the day, 16 cups were 224) _____
used. What fraction of the package of cups was used?
A) $\frac{59}{3}$ of the package B) $\frac{16}{59}$ of the package
C) $\frac{75}{16}$ of the package D) $\frac{16}{75}$ of the package
- 225) There are 70 students in Jose's class. $\frac{2}{5}$ of the students are science majors. How many students are 225) _____
science majors?
A) 140 students B) 42 students C) 28 students D) 26 students
- 226) Tyler and his sister arranged a party for their father's birthday. The total cost of the party was 226) _____
\$840. Tyler paid $\frac{1}{4}$ of the total cost and his sister paid the remainder. How much did Tyler pay?
A) \$230 B) \$220 C) \$225 D) \$210
- 227) When Maria finished medical school she owed \$15,000 in student loans. She repaid $\frac{1}{5}$ of the total 227) _____
amount within two years of graduating. How much did she repay within two years of
graduating?
A) \$300 B) \$3300 C) \$2700 D) \$3000

- 228) A storehouse stores 640 different inventory items. $\frac{3}{10}$ of these items are perishable. How many of the inventory items are perishable? 228) _____
 A) 192 items B) 64 items C) 195 items D) 189 items
- 229) A restaurant has a capacity of 40 patrons. If the restaurant is $\frac{5}{10}$ full, how many patrons are at the restaurant? 229) _____
 A) 20 patrons B) 15 patrons C) 4 patrons D) 25 patrons
- 230) A recipe calls for $\frac{2}{3}$ cup of milk. How much milk should be used to make $\frac{1}{6}$ of the recipe? 230) _____
 A) $\frac{1}{18}$ cup B) $\frac{1}{9}$ cup C) $\frac{3}{18}$ cup D) $\frac{2}{9}$ cup
- 231) On a map, 1 in. represents 300 miles. How much does $\frac{1}{3}$ in. represent? 231) _____
 A) 100 mi B) 110 mi C) 90 mi D) 900 mi
- 232) A company has 37,800 employees. Of these, $\frac{1}{3}$ drive alone to work, $\frac{1}{6}$ car pool, $\frac{1}{9}$ use public transportation, $\frac{1}{10}$ cycle, and the remainder use other methods of transportation. How many employees use each method of transportation? 232) _____
 A) Drive alone: 12,700; car pool: 6300; public transportation: 4100; cycle: 3780; other: 1000
 B) Drive alone: 12,600; car pool: 6300; public transportation: 4200; cycle: 3780; other: 3780
 C) Drive alone: 12,600; car pool: 6300; public transportation: 4200; cycle: 3780; other: 10,920
 D) Drive alone: 1260; car pool: 6300; public transportation: 4200; cycle: 3780; other: 10,920
- 233) The pitch of a screw is the distance between threads. With each complete rotation of the screw, it goes in or out a distance equal to its pitch. How far will a screw with a pitch of $\frac{1}{16}$ in. go into a piece of wood when it is turned 10 complete rotations clockwise? 233) _____
 A) $\frac{8}{5}$ in. B) $\frac{1}{40}$ in. C) $\frac{1}{160}$ in. D) $\frac{5}{8}$ in.
- 234) A land developer wants to develop 4 acres of land. Each lot in the development is to be $\frac{1}{2}$ of an acre. How many lots will the land developer have in the 4 acres? 234) _____
 A) 2 lot(s) B) $\frac{1}{2}$ lot C) 8 lots D) $\frac{1}{2}$ lots

- 235) A box of cereal contains about 12 cups. A serving size is $\frac{3}{4}$ cup. About how many servings are in the box of cereal? 235) _____
 A) 9 servings B) $3\frac{3}{4}$ servings C) 16 servings D) 8 servings
- 236) A child's dose of medicine is $\frac{1}{6}$ of a pre-measured dose cup. If the bottle of medicine is the size of 9 dose cups, how many children's doses are there in the bottle? 236) _____
 A) $9\frac{1}{6}$ doses B) $1\frac{1}{2}$ dose(s) C) 15 doses D) 54 doses
- 237) Jeremy has traveled $\frac{4}{5}$ of his total trip. He has traveled 484 miles so far. How many more miles does he have to travel? 237) _____
 A) 121 miles B) 605 miles C) None of these D) $96\frac{4}{5}$ miles
- 238) Lauren has traveled $\frac{8}{9}$ of his total trip. He has traveled 72 miles so far. How many more miles does he have to travel? 238) _____
 A) 8 miles B) 9 miles C) 81 miles D) None of these
- 239) A worker has readings that take $\frac{2}{3}$ minute each to read and record. How many readings can be completed in 54 minutes? 239) _____
 A) 55 readings B) 36 readings C) 81 readings D) 20 readings
- 240) A bag of chips is 24 ounces. A serving size is $\frac{3}{4}$ ounce. How many servings are in the bag of chips? 240) _____
 A) $6\frac{3}{4}$ servings B) $9\frac{1}{3}$ servings C) 18 servings D) 32 servings
- 241) A piece of cheese weighing $\frac{2}{9}$ lb is to be divided into 4 equal portions. What will be the weight of each portion? 241) _____
 A) $\frac{1}{18}$ lb B) $\frac{2}{9}$ lb C) $\frac{8}{9}$ lb D) 18 lb
- 242) A piece of cable which is $\frac{2}{5}$ m long is to be cut into pieces $\frac{1}{10}$ m long. How many pieces will there be? 242) _____
 A) 20 pieces B) $\frac{1}{4}$ piece C) 4 pieces D) 50 pieces

- 243) Lorrie bought $\frac{1}{3}$ lb of basil and $\frac{1}{5}$ lb of oregano. How many pounds of herbs did she buy in total? 243) _____
 A) $\frac{2}{5}$ lb B) $\frac{1}{15}$ lb C) $\frac{8}{15}$ lb D) $\frac{4}{15}$ lb
- 244) Alan walked $\frac{2}{7}$ mi to the store and then another $\frac{5}{4}$ mi to his friend's house. How far did he walk? 244) _____
 A) $\frac{37}{28}$ mi B) $\frac{7}{11}$ mi C) $\frac{13}{28}$ mi D) $\frac{43}{28}$ mi
- 245) Linda walked $\frac{1}{8}$ mi to the park and then another $\frac{5}{12}$ mi to the cafe. How far did she walk in total? 245) _____
 A) $\frac{1}{3}$ mi B) $\frac{11}{24}$ mi C) $\frac{1}{2}$ mi D) $\frac{13}{24}$ mi
- 246) A recipe calls for $\frac{2}{7}$ L of water and $\frac{4}{7}$ L of milk. If the recipe is doubled, how much liquid will be needed? 246) _____
 A) $\frac{3}{7}$ L B) $\frac{16}{7}$ L C) $\frac{6}{7}$ L D) $\frac{12}{7}$ L
- 247) A recipe calls for $\frac{2}{5}$ L of water and $\frac{3}{5}$ L of milk. If the recipe is halved, how much liquid will be needed? 247) _____
 A) 1 L B) $\frac{12}{5}$ L C) $\frac{1}{2}$ L D) 2 L
- 248) A layer of paint on a piece of wood has a thickness of $\frac{1}{18}$ inch. The thickness of the piece of wood is $\frac{5}{6}$ inch. What is the total thickness of the wood and the paint? 248) _____
 A) $\frac{8}{9}$ in. B) $\frac{8}{3}$ in. C) $\frac{1}{4}$ in. D) $\frac{1}{3}$ in.
- 249) John bought $\frac{1}{7}$ lb of thyme, $\frac{8}{7}$ lb of rosemary, and $\frac{1}{28}$ lb of dill. How many pounds of herbs did he buy in total? 249) _____
 A) $\frac{5}{14}$ lb B) $\frac{37}{28}$ lb C) $\frac{10}{7}$ lb D) $\frac{13}{28}$ lb

- 250) Karl Mason sold $\frac{1}{3}$ gross of data disks on Monday, $\frac{7}{12}$ gross on Tuesday, and $\frac{4}{6}$ gross on Wednesday. What was the total amount of data disks sold? 250) _____
- A) $\frac{19}{12}$ gross B) 1 gross C) $\frac{19}{6}$ gross D) $\frac{13}{3}$ gross
- 251) A lawyer stacks three case files on top of each other. The thicknesses of the files are $\frac{5}{6}$, $\frac{4}{12}$, and $\frac{8}{21}$ inches. What is the total height of the stack of files? 251) _____
- A) $\frac{73}{126}$ in. B) $\frac{65}{42}$ in. C) $\frac{65}{21}$ in. D) $\frac{17}{126}$ in.
- 252) Erika spent $\frac{3}{4}$ hr on her computer visiting the history channel and the discovery channel websites. She spent $\frac{1}{4}$ hr at the history channel website. How many hours did she spend at the discovery channel website? 252) _____
- A) $\frac{7}{16}$ hr B) $\frac{1}{2}$ hr C) $\frac{11}{16}$ hr D) $\frac{1}{8}$ hr
- 253) Saji swims $\frac{1}{2}$ mi every day. One day he had already swum $\frac{1}{5}$ mi. How much further should he swim? 253) _____
- A) $\frac{1}{3}$ mi B) $\frac{1}{10}$ mi C) $\frac{3}{10}$ mi D) $\frac{3}{5}$ mi
- 254) Johanna has a $\frac{3}{4}$ -lb mixture of cashews and peanuts that includes $\frac{7}{12}$ lb of cashews. How many pounds of peanuts are in the mixture? 254) _____
- A) $\frac{1}{2}$ lb B) $\frac{1}{2}$ lb C) $\frac{1}{24}$ lb D) $\frac{1}{6}$ lb
- 255) From a $\frac{23}{20}$ -lb wheel of cheese, a $\frac{2}{5}$ -lb piece was served. How much cheese remained on the wheel? 255) _____
- A) $\frac{7}{5}$ lb B) $\frac{3}{4}$ lb C) $\frac{4}{5}$ lb D) $\frac{21}{20}$ lb
- 256) Bill has $\frac{24}{36}$ yards of canvas from which he is cutting strips. He has cut $\frac{8}{36}$ yards already. How much of the canvas is left? 256) _____
- A) $\frac{4}{9}$ yd B) $\frac{17}{36}$ yd C) $\frac{5}{12}$ yd D) $\frac{10}{9}$ yd

257) From a $\frac{7}{8}$ -lb package of ground beef, a $\frac{1}{3}$ -lb hamburger was made. How much ground beef is left in the package? 257) _____

A) $\frac{5}{6}$ lb B) $\frac{1}{4}$ lb C) $\frac{1}{2}$ lb D) $\frac{13}{24}$ lb

258) Three partners share the ownership of a sailboat on Lake Michigan. One partner owns $\frac{9}{16}$ of the boat and the second owns $\frac{1}{8}$. How much of the boat does the third partner own? 258) _____

A) $\frac{1}{2}$ B) $\frac{5}{16}$ C) $\frac{3}{8}$ D) $\frac{7}{16}$

Solve. Write a mixed numeral for the answer.

259) Annie must send two packages. One of the packages weighs $14\frac{4}{9}$ lb and the other weighs $14\frac{2}{9}$ lb. What is the total weight of the two packages? 259) _____

A) $29\frac{2}{3}$ lb B) $28\frac{2}{3}$ lb C) $27\frac{2}{3}$ lb D) $14\frac{2}{3}$ lb

260) The second tallest child in a class is $36\frac{2}{3}$ inches tall. The tallest child is $4\frac{7}{12}$ inches taller. How tall is the tallest child in the class? 260) _____

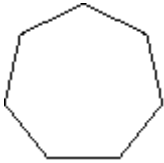
A) $40\frac{1}{4}$ in. B) $40\frac{1}{3}$ in. C) $40\frac{15}{12}$ in. D) $41\frac{1}{4}$ in.

261) A painter used $8\frac{5}{6}$ gallons of paint to paint the front of a house and another $8\frac{7}{9}$ gallons to paint the back. How much paint did he use in total? 261) _____

A) $16\frac{47}{54}$ gal B) $17\frac{11}{18}$ gal C) $16\frac{87}{54}$ gal D) $16\frac{11}{18}$ gal

262) The front cover of a book measures $7\frac{1}{2}$ inches by $5\frac{1}{4}$ inches. What is the total distance around (the perimeter of) the front cover of the book? 262) _____

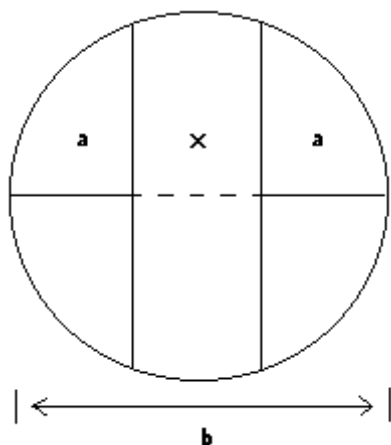
A) $24\frac{3}{4}$ in. B) $25\frac{1}{2}$ in. C) $12\frac{3}{4}$ in. D) $25\frac{1}{4}$ in.

- 263) Find the perimeter (distance around) of the polygon below. Each side of the polygon has the same length. 263) _____
- 
- side length = $5\frac{3}{4}$ yd
- A) $40\frac{1}{4}$ yd B) $37\frac{1}{2}$ yd C) $35\frac{3}{4}$ yd D) 46 yd
- 264) Ellen is knitting a scarf with one $2\frac{1}{2}$ - inch blue stripe, one $1\frac{1}{3}$ - inch green stripe, and one $2\frac{2}{9}$ - inch white stripe. How wide is the scarf? 264) _____
- A) $1\frac{10}{11}$ in. B) $\frac{18}{109}$ in. C) $6\frac{1}{18}$ in. D) $\frac{11}{21}$ in.
- 265) Mr. Meredith is building a table. The top will have a piece of marble $23\frac{1}{2}$ inches by 10 inches, bordered by $1\frac{1}{4}$ inches of wood on all four sides. Give the overall dimensions of the table top. 265) _____
- A) $24\frac{1}{2}$ in. by $11\frac{1}{2}$ in. B) 26 in. by $12\frac{1}{2}$ in.
C) $26\frac{1}{2}$ in. by $12\frac{1}{2}$ in. D) 26 in. by 12 in.
- 266) While shopping for a party, June bought $1\frac{3}{7}$ pounds of hamburger, $1\frac{2}{3}$ pounds of chicken, and $6\frac{2}{3}$ pounds of ham. How much meat did she buy? 266) _____
- A) $9\frac{16}{21}$ lb B) $2\frac{1}{2}$ lb C) $\frac{21}{205}$ lb D) $\frac{2}{5}$ lb
- 267) There were $23\frac{1}{8}$ yards of wire on a spool. After a customer bought $3\frac{1}{2}$ yards of wire from the spool, how many yards were left? 267) _____
- A) $18\frac{5}{8}$ yd B) 19 yd C) $19\frac{5}{8}$ yd D) $20\frac{5}{8}$ yd
- 268) Daniel is $70\frac{1}{5}$ in. tall and his brother Tyler is $67\frac{11}{20}$ in. tall. How much taller is Daniel? 268) _____
- A) $2\frac{13}{20}$ in. B) $3\frac{7}{20}$ in. C) $2\frac{2}{3}$ in. D) $3\frac{13}{20}$ in.

- 269) June wants to work for $13\frac{1}{4}$ hours at her part-time job this week. She has already worked $3\frac{3}{4}$ hours. How many more hours does she need to work? 269) _____
- A) $9\frac{1}{2}$ hr B) $10\frac{1}{2}$ hr C) 9 hr D) $8\frac{1}{2}$ hr
- 270) A Boeing 767 flew 920 mi on a nonstop flight. On the return flight, it landed after having flown $530\frac{1}{9}$ mi. How far was the plane from its original point of departure? 270) _____
- A) $390\frac{8}{9}$ mi B) $390\frac{1}{9}$ mi C) $389\frac{1}{9}$ mi D) $389\frac{8}{9}$ mi
- 271) Peter must practice the piano $12\frac{1}{4}$ hours per week. He has already practiced $4\frac{3}{4}$ hours. How many more hours does he need to practice? 271) _____
- A) 7 hr B) $7\frac{1}{2}$ hr C) $8\frac{1}{2}$ hr D) $6\frac{1}{2}$ hr
- 272) A nail $8\frac{1}{2}$ inches long is driven into a board $2\frac{3}{5}$ inches thick. How much of the nail protrudes from the other side of the board? 272) _____
- A) $\frac{4}{7}$ in. B) $\frac{2}{5}$ in. C) $8\frac{3}{7}$ in. D) $5\frac{9}{10}$ in.
- 273) Brian was training to run a marathon. During the three-day period before the race he decided that he would train for a total of 12 hours. If he trained for $2\frac{4}{5}$ hours on the first day and $1\frac{3}{10}$ hours on the second day, how many hours would he need to train on the third day? 273) _____
- A) 8 hr B) $8\frac{3}{10}$ hr C) $8\frac{9}{10}$ hr D) $7\frac{9}{10}$ hr
- 274) Amy decided to bake bread and a cake. For the bread she needed $3\frac{1}{2}$ cups of flour. For the cake she needed $1\frac{2}{3}$ cups of flour. She had $6\frac{3}{5}$ cups of flour. How much flour did she have left over? 274) _____
- A) $2\frac{13}{30}$ cups B) $1\frac{9}{30}$ cups C) $1\frac{13}{30}$ cups D) $2\frac{9}{30}$ cups

275) Find the length of the section represented by x in the figure.

275) _____



$$a = 2\frac{3}{4}$$

$$b = 13\frac{5}{12}$$

A) $7\frac{11}{12}$

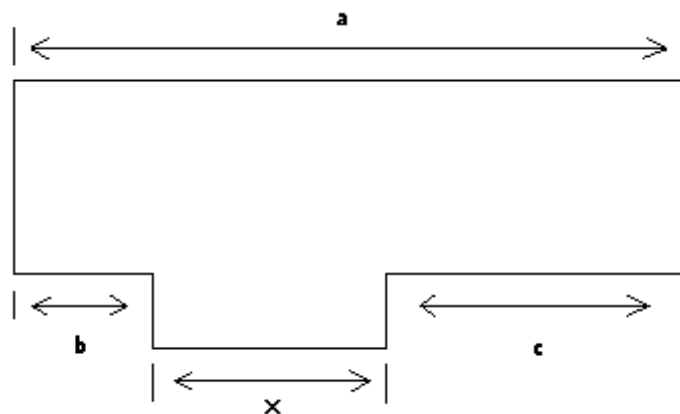
B) $19\frac{7}{12}$

C) $13\frac{5}{12}$

D) $8\frac{1}{12}$

276) Find the length of the section represented by x in the figure.

276) _____



$$a = 25\frac{3}{4}$$

$$b = 1\frac{11}{16}$$

$$c = 10\frac{3}{4}$$

A) $13\frac{5}{16}$

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

C) $13\frac{7}{16}$

D) $34\frac{13}{16}$

277) A small company sells stock for $6\frac{5}{8}$ dollars per share. How much will 168 shares cost?

277) _____

A) 1113 dollars

B) 131 dollars

C) 126 dollars

D) $25\frac{19}{53}$ dollars

- 278) The population of Anna's grandmother's country is $1\frac{3}{4}$ times the population of Anna's country. 278) _____
 The population of Anna's country is 356 million. What is the population of Anna's grandmother's country?
 A) 550 million B) $203\frac{3}{7}$ million C) 623 million D) $89\frac{3}{4}$ million
- 279) In one city, the average adult consumes $3\frac{1}{4}$ ounces of chocolate per week. How much chocolate 279) _____
 do 20 average adults consume per week?
 A) 116 oz B) $15\frac{1}{4}$ oz C) $6\frac{2}{13}$ oz D) 65 oz
- 280) A courier distributes packages along two routes. The northern route can be completed in $5\frac{5}{8}$ 280) _____
 minutes, whereas the southern route takes $4\frac{3}{4}$ minutes. Find the total time it takes to complete the
 deliveries for one month if the northern route is taken 43 times and the southern route 26 times.
 A) $182\frac{11}{16}$ min B) $357\frac{15}{16}$ min C) $365\frac{3}{8}$ min D) $45\frac{43}{64}$ min
- 281) Fahrenheit temperatures can be obtained from Celsius (centigrade) by multiplying by $1\frac{4}{5}$ and 281) _____
 adding 32° . What Fahrenheit temperature corresponds to a Celsius temperature of 71° ?
 A) $88\frac{4}{5}^\circ\text{F}$ B) $103\frac{4}{5}^\circ\text{F}$ C) $159\frac{4}{5}^\circ\text{F}$ D) $185\frac{2}{5}^\circ\text{F}$
- 282) A snail is moving at $2\frac{1}{5}$ feet per minute. How far will it move in $3\frac{1}{3}$ minutes? 282) _____
 A) $6\frac{2}{3}$ ft B) $7\frac{1}{3}$ ft C) $6\frac{1}{15}$ ft D) $6\frac{11}{15}$ ft
- 283) The weight of a substance is $2\frac{1}{3}$ g per cubic centimeter. What is the weight of $3\frac{1}{4}$ cubic 283) _____
 centimeters of the substance?
 A) $6\frac{7}{12}$ g B) $7\frac{7}{12}$ g C) $6\frac{1}{12}$ g D) $7\frac{1}{12}$ g
- 284) A recipe calls for $2\frac{2}{3}$ cups of water. How much water would be needed for $\frac{1}{2}$ the recipe? 284) _____
 A) $1\frac{1}{3}$ cups B) $1\frac{1}{6}$ cups C) $2\frac{1}{3}$ cups D) $1\frac{2}{3}$ cups

285) The dimensions of a rectangular mural on the wall of Amy's bedroom are $2\frac{3}{4}$ feet by $3\frac{3}{4}$ feet. 285) _____

What is the area of the mural?

- A) $8\frac{13}{16}$ ft² B) $8\frac{1}{16}$ ft² C) $10\frac{5}{16}$ ft² D) $6\frac{9}{16}$ ft²

286) A photograph measuring 7 in. by $9\frac{1}{2}$ in. is put in a frame measuring $7\frac{1}{2}$ in. by 10 in. What is the area of the border around the photo? 286) _____

- A) 8 in.² B) $7\frac{1}{2}$ in.² C) 9 in.² D) $8\frac{1}{2}$ in.²

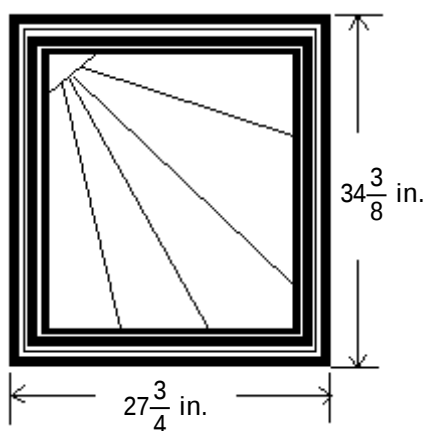
287) A square piece of paper has a side length of $s = 7\frac{5}{8}$ inches. A square of side length $\frac{1}{2} \cdot s$ is cut from one corner of the piece of paper. Find the area of the piece of paper that remains. 287) _____

- A) $43\frac{155}{256}$ in.² B) $39\frac{13}{16}$ in.² C) $41\frac{125}{256}$ in.² D) $54\frac{21}{64}$ in.²

288) A rectangular lot measures $286\frac{1}{3}$ feet by $220\frac{1}{2}$ feet. A building with dimensions of 120 feet by $35\frac{3}{4}$ feet is built on the lot. How much area is left over? 288) _____

- A) $58,935\frac{3}{4}$ ft² B) $58,719\frac{5}{12}$ ft² C) $58,846\frac{1}{2}$ ft² D) $58,630\frac{1}{6}$ ft²

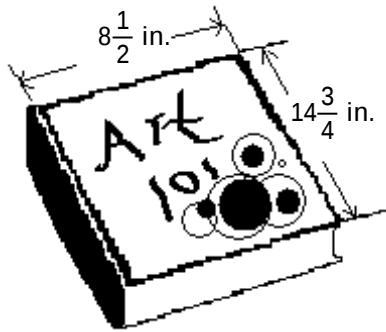
289) Stained Glass Solutions sells a framed stained glass window as shown below. Its dimensions are $27\frac{3}{4}$ inches wide by $34\frac{3}{8}$ inches high. What is the perimeter of the framed stained glass window? 289) _____



- A) $126\frac{1}{8}$ in. B) $63\frac{3}{4}$ in. C) $124\frac{1}{4}$ in. D) $953\frac{29}{32}$ in.

290) A book cover measures $8\frac{1}{2}$ inches by $14\frac{3}{4}$ inches. What is the perimeter of the front cover of the book?

290) _____



A) $176\frac{3}{4}$ in.

B) $46\frac{1}{2}$ in.

C) $125\frac{3}{8}$ in.

D) $12\frac{1}{2}$ in.

Refer to the following recipe to answer the question. Give your answer as a mixed numeral.

Grandma's Fork Cookies

$1\frac{1}{2}$ cup brown sugar

$1\frac{1}{2}$ cup white sugar

$1\frac{1}{4}$ cup shortening

1 pinch salt

3 eggs

$2\frac{1}{2}$ tsp soda

$2\frac{1}{4}$ tsp cream of tartar

$1\frac{1}{2}$ tsp vanilla

Cream sugars and shortening. Beat in remaining ingredients. Add flour to stiffen like regular cookie dough. Roll into balls, then flatten with a fork. Cook until brown.

291) If the recipe is doubled, how much brown sugar will be needed?

291) _____

A) 4 cups

B) 3 cups

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

D) 5 cups

292) Find the amount of vanilla needed if the recipe is halved.

292) _____

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

B) 3 tsp

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

D) 1 tsp

293) Find the amount of white sugar needed if you take $2\frac{1}{2}$ times the recipe. 293) _____

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

294) Find the amount of cream of tartar needed if you take $1\frac{1}{2}$ times the recipe. 294) _____

A) $3\frac{3}{4}$ tsp B) $3\frac{1}{2}$ tsp C) $4\frac{1}{8}$ tsp D) $3\frac{3}{8}$ tsp

Solve. Write a mixed numeral for the answer.

295) A statistician has readings that take $2\frac{1}{3}$ minutes each to read and record. How many readings can be completed in 210 minutes? 295) _____

A) 490 readings B) 141 readings C) 12 readings D) 90 readings

296) The floor of a rectangular room is to be tiled with $\frac{1}{3}$ foot square tiles along a $6\frac{7}{8}$ foot wall. How many tiles will be needed along the wall? 296) _____

A) $20\frac{5}{8}$ tiles B) $2\frac{7}{24}$ tiles C) $18\frac{7}{8}$ tiles D) 25 tiles

297) Stock in a company is selling for $\$2\frac{7}{8}$ per share. If someone purchases \$874 worth of stock in this company, how many shares did they get? 297) _____

A) 874 shares B) $70\frac{7}{8}$ shares C) 304 shares D) 6992 shares

298) To make a batch of juice, $3\frac{1}{4}$ cups of concentrate are required. How many batches of juice can be made from 13 cups of concentrate? 298) _____

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

299) A serving of filleted fish is generally considered to be $\frac{1}{3}$ lb. How many servings can be prepared from $9\frac{3}{8}$ lb of flounder fillet? 299) _____

A) $3\frac{1}{8}$ servings B) 30 servings C) $28\frac{1}{8}$ servings D) $27\frac{3}{8}$ servings

300) A car traveled 444 miles on $16\frac{4}{9}$ gallons of gas. How many miles per gallon did it get? 300) _____

A) 28 mpg B) 27 mpg C) $27\frac{3}{4}$ mpg D) $27\frac{11}{16}$ mpg

- 301) The weight of a certain gas is $4\frac{1}{2}$ kg per cubic meter. How many cubic meters would be occupied by 81 kg of the gas? 301) _____
- A) $20\frac{1}{4}$ cu m B) $\frac{1}{18}$ cu m C) $3280\frac{1}{2}$ cu m D) 18 cu m

- 302) The population of the country where Ken lives is $3\frac{1}{5}$ times the population of the country where he was born. The population of the country where he lives is approximately 16,000,000. What is the approximate population of the country where he was born? 302) _____
- A) 5,000,000 B) 3,500,000 C) 6,000,000 D) 4,000,000

Simplify.

- 303) $\frac{1}{2} \cdot \frac{1}{7} \cdot \frac{1}{3}$ 303) _____
- A) $\frac{1}{14}$ B) $\frac{7}{6}$ C) $\frac{3}{27}$ D) $\frac{1}{42}$

- 304) $42 \div 6 \div 9$ 304) _____
- A) 63 B) $\frac{7}{9}$ C) $\frac{1}{63}$ D) $\frac{8}{9}$

- 305) $\frac{3}{4} \div \frac{4}{3} \div \frac{3}{5}$ 305) _____
- A) $\frac{27}{13}$ B) $\frac{15}{16}$ C) $\frac{5}{3}$ D) $\frac{3}{5}$

- 306) $8\frac{1}{3} - 3\frac{1}{5} + 1\frac{1}{6}$ 306) _____
- A) $6\frac{2}{15}$ B) $6\frac{1}{2}$ C) $3\frac{29}{30}$ D) $6\frac{3}{10}$

- 307) $\left(\frac{3}{8} + \frac{1}{4}\right) \cdot \frac{5}{10}$ 307) _____
- A) $\frac{13}{80}$ B) $\frac{5}{16}$ C) $\frac{1}{2}$ D) $\frac{5}{2}$

- 308) $\frac{4}{9} \div \frac{1}{2} - \frac{1}{3}$ 308) _____
- A) $\frac{29}{36}$ B) $\frac{5}{9}$ C) $\frac{20}{27}$ D) $\frac{29}{27}$

$$309) \frac{2}{9} \cdot \left(\frac{2}{5} - \frac{3}{10} \right)$$

A) $\frac{1}{35}$ B) $\frac{1}{45}$ C) $-\frac{19}{90}$ D) $\frac{2}{35}$ 309) _____

$$310) \frac{1}{4} \div \frac{3}{7} \cdot \frac{5}{6}$$

A) $\frac{5}{56}$ B) $2\frac{2}{35}$ C) $4\frac{4}{5}$ D) $\frac{35}{72}$ 310) _____

$$311) \frac{9}{10} - \frac{4}{5} \cdot \frac{1}{2}$$

A) $\frac{1}{2}$ B) 2 C) $\frac{1}{200}$ D) $\frac{1}{20}$ 311) _____

$$312) \left(\frac{3}{5} - \frac{1}{2} \right) \div \frac{4}{9}$$

A) $\frac{40}{9}$ B) $\frac{9}{40}$ C) $\frac{2}{45}$ D) $\frac{1}{10}$ 312) _____

$$313) \frac{5}{6} \div \frac{1}{3} - \frac{3}{5} \cdot \frac{1}{2}$$

A) $\frac{19}{20}$ B) $1\frac{9}{10}$ C) $2\frac{1}{5}$ D) 25 313) _____

$$314) \frac{1}{2} \cdot \frac{1}{2} + \frac{1}{5} \cdot \frac{3}{7}$$

A) $\frac{47}{140}$ B) $\frac{141}{35}$ C) $\frac{5}{6}$ D) $\frac{47}{70}$ 314) _____

$$315) \frac{5}{9} \cdot \left(\frac{1}{8} + \frac{1}{4} \right) \cdot \frac{36}{5}$$

A) $1\frac{1}{2}$ B) 3 C) 1 D) $\frac{3}{4}$ 315) _____

$$316) \left(\frac{1}{2} \right)^2 \cdot \left(\frac{2}{7} - \frac{3}{14} \right)$$

A) $-\frac{1}{7}$ B) $\frac{1}{14}$ C) $\frac{1}{56}$ D) $-\frac{1}{14}$ 316) _____

$$317) \left(\frac{2}{3} \right)^2 + 4\frac{1}{4} \div 1\frac{1}{3}$$

A) $3\frac{41}{48}$ B) $3\frac{25}{48}$ C) $3\frac{91}{144}$ D) $4\frac{25}{48}$ 317) _____

$$318) 1 + \frac{3}{5} - \left(\frac{3}{5}\right)^2 + \left(\frac{3}{5}\right)^3$$

A) $1\frac{93}{125}$ B) $\frac{22}{125}$ C) $1\frac{57}{125}$ D) $1\frac{3}{125}$ 318) _____

$$319) \frac{2}{3} - \frac{1}{6} \div \left(\frac{4}{5} - \frac{1}{2}\right)$$

A) $\frac{1}{9}$ B) $\frac{5}{3}$ C) $\frac{1}{24}$ D) $\frac{1}{8}$ 319) _____

$$320) \frac{5}{8} - \frac{1}{6} \cdot \left(\frac{1}{4} + \frac{4}{5}\right)$$

A) $\frac{9}{20}$ B) $\frac{77}{160}$ C) $\frac{83}{60}$ D) $-\frac{13}{60}$ 320) _____

$$321) \left(\frac{2}{3} - \frac{1}{6}\right) \div \left(\frac{1}{4} + \frac{4}{5}\right)$$

A) $\frac{10}{63}$ B) $\frac{32}{63}$ C) $\frac{14}{5}$ D) $\frac{10}{21}$ 321) _____

$$322) \left(2\frac{2}{3} - 1\frac{1}{2}\right)^2 + 3 \cdot 1\frac{1}{8} \div 18$$

A) $1\frac{79}{144}$ B) $1\frac{17}{48}$ C) $\frac{341}{1296}$ D) $1\frac{77}{144}$ 322) _____

Find the average of the set of numbers.

$$323) \frac{1}{3} \text{ and } \frac{1}{6}$$

A) $\frac{1}{9}$ B) $\frac{1}{2}$ C) $\frac{1}{18}$ D) $\frac{1}{4}$ 323) _____

$$324) \frac{3}{4} \text{ and } \frac{5}{6}$$

A) $\frac{2}{3}$ B) $\frac{4}{5}$ C) $\frac{19}{12}$ D) $\frac{19}{24}$ 324) _____

$$325) \frac{3}{5} \text{ and } \frac{7}{8}$$

A) $\frac{59}{40}$ B) $\frac{59}{80}$ C) $\frac{10}{13}$ D) $\frac{5}{7}$ 325) _____

326) $\frac{1}{6}$, $\frac{2}{8}$, and $\frac{3}{4}$ 326) _____

A) $\frac{7}{18}$ B) $1\frac{1}{6}$ C) $\frac{1}{32}$ D) $\frac{7}{12}$

327) $\frac{1}{4}$, $\frac{6}{7}$, and $\frac{1}{28}$ 327) _____

A) $\frac{1}{6}$ B) $\frac{2}{7}$ C) $\frac{8}{21}$ D) $\frac{4}{7}$

328) $5\frac{1}{2}$ and $8\frac{7}{8}$ 328) _____

A) $6\frac{15}{16}$ B) $7\frac{3}{16}$ C) $14\frac{3}{8}$ D) $6\frac{3}{4}$

329) $6\frac{2}{3}$ and $18\frac{5}{6}$ 329) _____

A) $25\frac{1}{2}$ B) $12\frac{3}{4}$ C) $22\frac{1}{6}$ D) $11\frac{1}{12}$

Solve. Write a mixed numeral for the answer.

330) Denise's triplets weighed $3\frac{5}{8}$ lb, $4\frac{3}{16}$ lb, and $4\frac{1}{4}$ lb at birth. Find their average birth weight. 330) _____

A) $4\frac{1}{48}$ lb B) $4\frac{1}{16}$ lb C) $4\frac{1}{8}$ lb D) $3\frac{47}{48}$ lb

331) At a track and field event, an athlete recorded the following heights at the high jump: $84\frac{1}{4}$ in., $83\frac{3}{4}$ in., $83\frac{1}{2}$ in., and 85 in. Find the average of the four jumps. 331) _____

A) 84 in. B) $84\frac{1}{16}$ in. C) $84\frac{1}{8}$ in. D) $84\frac{1}{4}$ in.

332) A road acceleration test measures the time in seconds required to go from 0 mph to 60 mph. The results for five cars were as follows: $6\frac{3}{10}$ sec, $7\frac{2}{5}$ sec, $8\frac{1}{10}$ sec, $6\frac{4}{5}$ sec, and $7\frac{1}{2}$ sec. What was the average time? 332) _____

A) $7\frac{27}{100}$ sec B) $7\frac{31}{50}$ sec C) $7\frac{1}{10}$ sec D) $7\frac{11}{50}$ sec

- 333) A test of five light bulbs showed that they burned for the following lengths of time (in days): $17\frac{2}{3}$, $19\frac{1}{4}$, $20\frac{1}{2}$, 21, and $18\frac{3}{4}$. For how many days, on average did the light bulbs burn? 333) _____
- A) $19\frac{13}{30}$ days B) $19\frac{1}{6}$ days C) $19\frac{7}{12}$ days D) $19\frac{17}{30}$ days

Estimate the fraction as 0, $\frac{1}{2}$, or 1.

- 334) $\frac{1}{21}$ 334) _____

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

- 335) $\frac{5}{76}$ 335) _____

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

- 336) $\frac{9}{10}$ 336) _____

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

- 337) $\frac{30}{33}$ 337) _____

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

- 338) $\frac{7}{13}$ 338) _____

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

- 339) $\frac{14}{27}$ 339) _____

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

Estimate the value as a whole number or as a mixed numeral where the fractional part is $\frac{1}{2}$.

- 340) $17\frac{13}{14}$ 340) _____

A) $17\frac{1}{2}$ B) 18 C) 17 D) $18\frac{1}{2}$

- 341) $4\frac{1}{19}$ 341) _____
 A) 6 B) 4 C) 5 D) $4\frac{1}{2}$
- 342) $12\frac{6}{13}$ 342) _____
 A) 13 B) $13\frac{1}{2}$ C) $12\frac{1}{2}$ D) 12
- 343) $\frac{3}{5} \cdot \frac{1}{15}$ 343) _____
 A) 1 B) $1\frac{1}{2}$ C) 0 D) $\frac{1}{2}$
- 344) $\frac{4}{5} + \frac{7}{13} + \frac{3}{5}$ 344) _____
 A) $2\frac{1}{2}$ B) $1\frac{1}{2}$ C) 3 D) 2
- 345) $\frac{1}{3} + \frac{5}{9} + \frac{11}{21}$ 345) _____
 A) 1 B) 2 C) $1\frac{1}{2}$ D) $2\frac{1}{2}$
- 346) $\frac{24}{100} + \frac{3}{10} - \frac{46}{1000}$ 346) _____
 A) $1\frac{1}{2}$ B) $\frac{1}{2}$ C) 1 D) 0
- 347) $\frac{27}{28} + \frac{31}{33} + \frac{49}{48}$ 347) _____
 A) $2\frac{1}{2}$ B) 2 C) 3 D) $3\frac{1}{2}$
- 348) $15\frac{1}{20} + 5\frac{20}{21}$ 348) _____
 A) $20\frac{1}{2}$ B) 20 C) $21\frac{1}{2}$ D) 21
- 349) $315 \div 5\frac{1}{15}$ 349) _____
 A) 62 B) 63 C) 64 D) $61\frac{1}{2}$

$$350) 95\frac{2}{157} \cdot 71\frac{1}{91}$$

A) 6846

B) 6745

C) $6735\frac{1}{2}$

D) $6846\frac{1}{2}$

350) _____

$$351) 16\frac{15}{31} \cdot 23\frac{17}{19}$$

A) 396

B) 408

C) 388

D) 384

351) _____

$$352) 47\frac{26}{27} \div 8\frac{3}{199}$$

A) $5\frac{1}{2}$

B) 5

C) 6

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

352) _____

$$353) 32\frac{10}{21} + 20\frac{8}{15} \cdot 14\frac{1}{18}$$

A) 327

B) $326\frac{1}{2}$

C) $319\frac{1}{2}$

D) $312\frac{1}{2}$

353) _____

$$354) 96\frac{2}{21} \div 5\frac{17}{18} + 3\frac{1}{8} \cdot 2\frac{13}{15}$$

A) 22

B) 25

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

D) $25\frac{1}{2}$

354) _____

Answer Key

Testname: UNTITLED2

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

Answer Key

Testname: UNTITLED2

- 43) B
- 44) A
- 45) C
- 46) C
- 47) C
- 48) D
- 49) A
- 50) C
- 51) A
- 52) B
- 53) C
- 54) A
- 55) D
- 56) A
- 57) C
- 58) A
- 59) C
- 60) C
- 61) B
- 62) D
- 63) A
- 64) C
- 65) B
- 66) B
- 67) D
- 68) B
- 69) D
- 70) C
- 71) A
- 72) C
- 73) A
- 74) D
- 75) D
- 76) D
- 77) C
- 78) A
- 79) B
- 80) D
- 81) A
- 82) B
- 83) B
- 84) D

Answer Key

Testname: UNTITLED2

- 85) D
- 86) C
- 87) D
- 88) C
- 89) D
- 90) A
- 91) A
- 92) B
- 93) C
- 94) C
- 95) C
- 96) D
- 97) C
- 98) A
- 99) C
- 100) B
- 101) C
- 102) C
- 103) A
- 104) D
- 105) D
- 106) A
- 107) C
- 108) A
- 109) D
- 110) C
- 111) B
- 112) B
- 113) A
- 114) A
- 115) A
- 116) A
- 117) B
- 118) B
- 119) D
- 120) D
- 121) C
- 122) A
- 123) C
- 124) A
- 125) D
- 126) B

Answer Key

Testname: UNTITLED2

- 127) C
- 128) B
- 129) B
- 130) D
- 131) B
- 132) A
- 133) B
- 134) B
- 135) A
- 136) A
- 137) A
- 138) A
- 139) A
- 140) B
- 141) A
- 142) D
- 143) B
- 144) A
- 145) D
- 146) D
- 147) B
- 148) B
- 149) D
- 150) A
- 151) C
- 152) C
- 153) A
- 154) B
- 155) B
- 156) C
- 157) B
- 158) B
- 159) D
- 160) B
- 161) D
- 162) B
- 163) C
- 164) C
- 165) B
- 166) C
- 167) C
- 168) C

Answer Key

Testname: UNTITLED2

- 169) D
- 170) D
- 171) B
- 172) D
- 173) B
- 174) A
- 175) C
- 176) D
- 177) A
- 178) C
- 179) D
- 180) D
- 181) C
- 182) D
- 183) A
- 184) D
- 185) A
- 186) A
- 187) D
- 188) B
- 189) A
- 190) D
- 191) C
- 192) D
- 193) C
- 194) A
- 195) D
- 196) B
- 197) C
- 198) D
- 199) D
- 200) D
- 201) A
- 202) C
- 203) A
- 204) A
- 205) A
- 206) C
- 207) A
- 208) C
- 209) B
- 210) A

Answer Key

Testname: UNTITLED2

- 211) A
- 212) A
- 213) B
- 214) B
- 215) A
- 216) B
- 217) C
- 218) B
- 219) B
- 220) C
- 221) D
- 222) B
- 223) B
- 224) D
- 225) C
- 226) D
- 227) D
- 228) A
- 229) A
- 230) B
- 231) A
- 232) C
- 233) D
- 234) C
- 235) C
- 236) D
- 237) A
- 238) B
- 239) C
- 240) D
- 241) A
- 242) C
- 243) C
- 244) D
- 245) D
- 246) D
- 247) C
- 248) A
- 249) B
- 250) A
- 251) B
- 252) B

Answer Key

Testname: UNTITLED2

- 253) C
- 254) D
- 255) B
- 256) A
- 257) D
- 258) B
- 259) B
- 260) D
- 261) B
- 262) B
- 263) A
- 264) C
- 265) B
- 266) A
- 267) C
- 268) A
- 269) A
- 270) D
- 271) B
- 272) D
- 273) D
- 274) C
- 275) A
- 276) A
- 277) A
- 278) C
- 279) D
- 280) C
- 281) C
- 282) B
- 283) B
- 284) A
- 285) C
- 286) D
- 287) A
- 288) C
- 289) C
- 290) B
- 291) B
- 292) C
- 293) B
- 294) D

Answer Key

Testname: UNTITLED2

- 295) D
- 296) A
- 297) C
- 298) C
- 299) C
- 300) B
- 301) D
- 302) A
- 303) D
- 304) B
- 305) B
- 306) D
- 307) B
- 308) B
- 309) B
- 310) D
- 311) A
- 312) B
- 313) C
- 314) A
- 315) A
- 316) C
- 317) C
- 318) C
- 319) A
- 320) A
- 321) D
- 322) A
- 323) D
- 324) D
- 325) B
- 326) A
- 327) C
- 328) B
- 329) B
- 330) A
- 331) C
- 332) D
- 333) A
- 334) B
- 335) A
- 336) C

Answer Key

Testname: UNTITLED2

- 337) B
- 338) B
- 339) C
- 340) B
- 341) B
- 342) C
- 343) C
- 344) D
- 345) C
- 346) B
- 347) C
- 348) D
- 349) B
- 350) B
- 351) A
- 352) C
- 353) C
- 354) B