Basic College Mathematics 6th edition Martin Gay Test Bank

SKU: 9780134840420-TEST-BANK

Exam

Name_____

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

Identify the numerator and the denominator of the fraction.

1) $\frac{7}{2}$ 1) _____

A) Numerator 2
Denominator 7

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

C) Numerator 7
Denominator 2

D) Numerator 9
Denominator 1

Simplify.

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

A) 17 B) $\frac{1}{17}$ C) 0 D) 1

3) $\frac{46}{1}$ 3) _____

A) $\frac{1}{46}$ B) 45 C) 1 D) 46

4) $\frac{50}{0}$ 4) _____

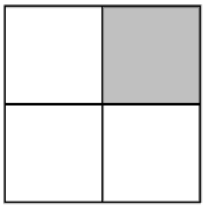
A) 0 B) $\frac{1}{50}$ C) undefined D) 50

5) $\frac{0}{28}$ 5) _____

A) undefined B) 28 C) $\frac{1}{28}$ D) 0

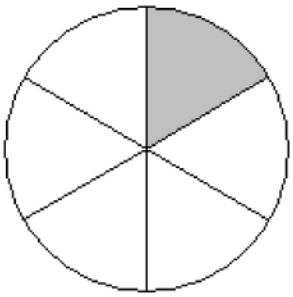
Write a fraction to represent the shaded part of the figure.

6) 6) _____

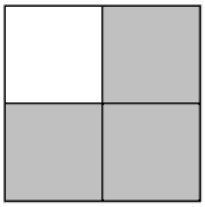


A) $\frac{3}{4}$ B) $\frac{3}{1}$ C) $\frac{1}{3}$ D) $\frac{1}{4}$

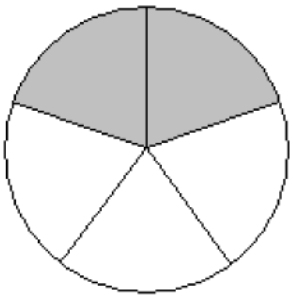
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7)  7) _____

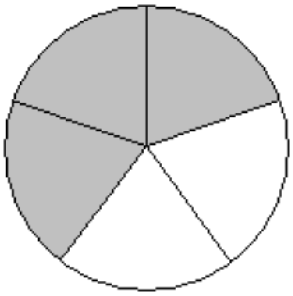
A) $\frac{1}{6}$ B) $\frac{1}{5}$ C) $\frac{5}{1}$ D) $\frac{5}{6}$

8)  8) _____

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

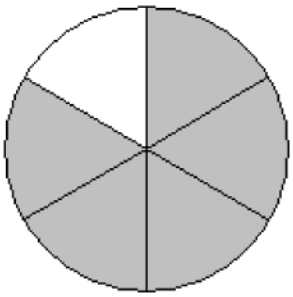
9)  9) _____

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

10)  10) _____

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

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11)  11) _____

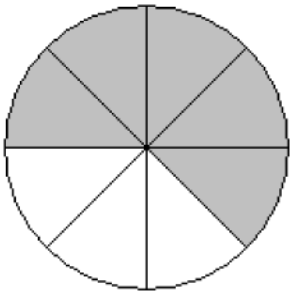
A) $\frac{5}{6}$ B) $\frac{1}{6}$ C) $\frac{5}{1}$ D) $\frac{1}{5}$

12)  12) _____

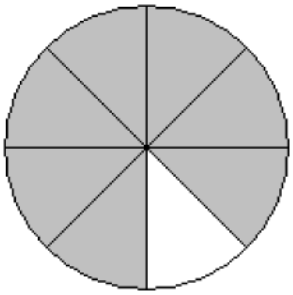
A) $\frac{5}{8}$ B) $\frac{5}{3}$ C) $\frac{3}{8}$ D) $\frac{3}{5}$

13)  13) _____

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

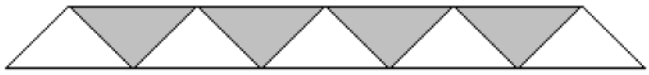
14)  14) _____

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

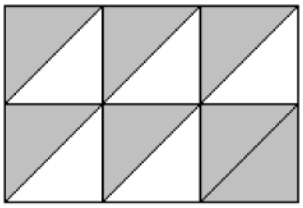
15)  15) _____

A) $\frac{1}{7}$ B) $\frac{7}{1}$ C) $\frac{1}{8}$ D) $\frac{7}{8}$

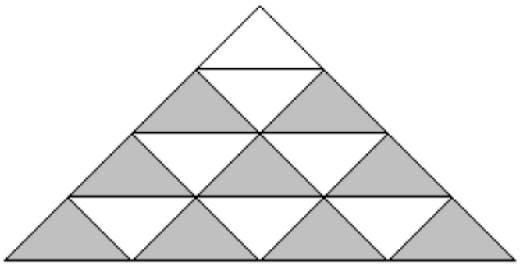
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16)  16) _____

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

17)  17) _____

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

18)  18) _____

A) $\frac{9}{16}$ B) $\frac{9}{7}$ C) $\frac{7}{16}$ D) $\frac{7}{9}$

Draw and shade a part of a diagram to represent the figure.

19) $\frac{4}{7}$ of a diagram 19) _____

A) 

B) 

C) 

D) 

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20) $\frac{3}{8}$ of a diagram 20) _____

A)



B)



C)



D)



21) $\frac{5}{8}$ of a diagram 21) _____

A)



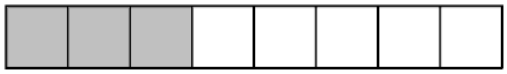
B)



C)



D)



22) $\frac{4}{9}$ of a diagram 22) _____

A)



B)



C)



D)



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23) $\frac{7}{9}$ of a diagram 23) _____

A)



B)



C)



D)



24) $\frac{7}{10}$ of a diagram 24) _____

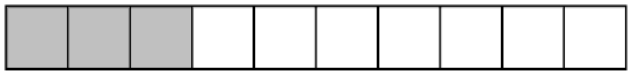
A)



B)



C)



D)



25) $\frac{3}{10}$ of a diagram 25) _____

A)



B)



C)



D)



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26) $\frac{4}{11}$ of a diagram 26) _____

A)



B)



C)



D)



27) $\frac{6}{11}$ of a diagram 27) _____

A)



B)



C)



D)



28) $\frac{8}{11}$ of a diagram 28) _____

A)



B)



C)



D)



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Write the fraction.

29) Of the 237 students at a university, 51 are sophomores. What fraction of the students are sophomores? 29) _____

A) $\frac{237}{51}$ B) $\frac{51}{186}$ C) $\frac{51}{237}$ D) $\frac{186}{51}$

30) Of the 252 students at a college, 47 are freshmen. What fraction of the students are NOT freshmen? 30) _____

A) $\frac{205}{47}$ B) $\frac{205}{252}$ C) $\frac{252}{205}$ D) $\frac{47}{252}$

31) Of the 87 teachers at a school, 40 are women. What fraction of the teachers are women? 31) _____

A) $\frac{40}{47}$ B) $\frac{87}{40}$ C) $\frac{40}{87}$ D) $\frac{47}{40}$

32) Of the 90 teachers at a school, 68 are women. What fraction of the teachers are NOT women? 32) _____

A) $\frac{90}{22}$ B) $\frac{22}{68}$ C) $\frac{68}{22}$ D) $\frac{22}{90}$

33) According to a recent study, 10 out of 18 visits to a hospital emergency room were for an injury. What fraction of emergency room visits are NOT injury–related? 33) _____

A) $\frac{8}{10}$ B) $\frac{8}{18}$ C) $\frac{10}{8}$ D) $\frac{18}{8}$

34) There are 100 centimeters in a meter. What fractional part of a meter does 39 centimeters represent? 34) _____

A) $\frac{39}{61}$ B) $\frac{61}{39}$ C) $\frac{39}{100}$ D) $\frac{100}{39}$

35) In a science class containing 59 students, there are 14 freshmen, 17 sophomores, 8 juniors, and the rest are seniors. What fraction of the class is seniors? 35) _____

A) $\frac{1}{4}$ B) $\frac{20}{59}$ C) $\frac{59}{20}$ D) $\frac{20}{90}$

36) At Smith's Apple Orchard one day, 57 people were picking apples, 19 people were picking pumpkins, and 24 people were picking raspberries. What fractional part of the people were picking pumpkins? 36) _____

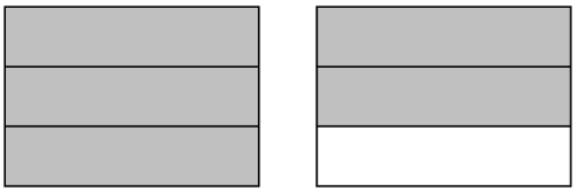
A) $\frac{19}{81}$ B) $\frac{19}{100}$ C) $\frac{57}{100}$ D) $\frac{100}{19}$

37) At Smith's Apple Orchard one day, 53 people were picking apples, 13 people were picking pumpkins, and 34 people were picking raspberries. What fractional part of the people were picking either apples or pumpkins? 37) _____

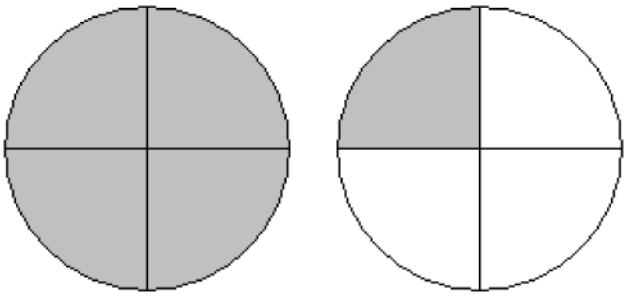
A) $\frac{13}{100}$ B) $\frac{66}{100}$ C) $\frac{53}{100}$ D) $\frac{66}{34}$

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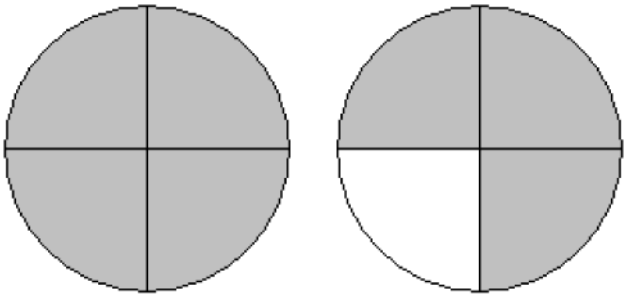
Write the shaded area in the figure as a mixed number and as an improper fraction.

38)  38) _____

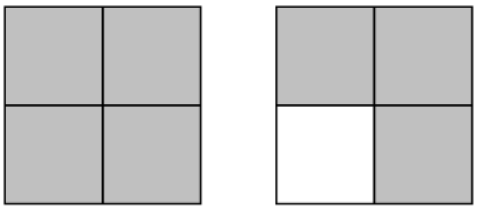
A) $5\frac{1}{3}; \frac{5}{3}$ B) $1\frac{2}{3}; \frac{5}{3}$ C) $2\frac{2}{3}; \frac{5}{3}$ D) $1\frac{5}{6}; \frac{5}{3}$

39)  39) _____

A) $1\frac{5}{8}; \frac{5}{4}$ B) $1\frac{3}{4}; \frac{5}{4}$ C) $2\frac{1}{4}; \frac{5}{4}$ D) $1\frac{1}{4}; \frac{5}{4}$

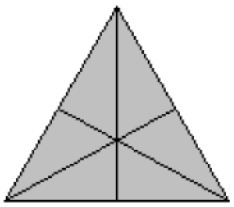
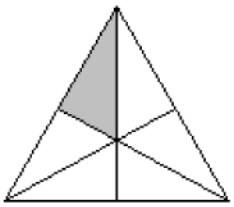
40)  40) _____

A) $1\frac{7}{8}; \frac{7}{4}$ B) $1\frac{3}{4}; \frac{7}{4}$ C) $2\frac{3}{4}; \frac{7}{4}$ D) $4\frac{3}{4}; \frac{7}{4}$

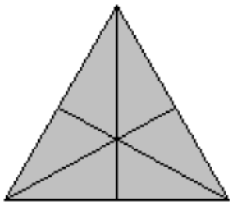
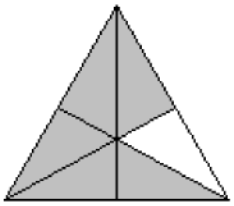
41)  41) _____

A) $4\frac{3}{4}; \frac{7}{4}$ B) $1\frac{3}{4}; \frac{7}{4}$ C) $1\frac{7}{8}; \frac{7}{4}$ D) $2\frac{7}{8}; \frac{7}{4}$

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42)   42) _____

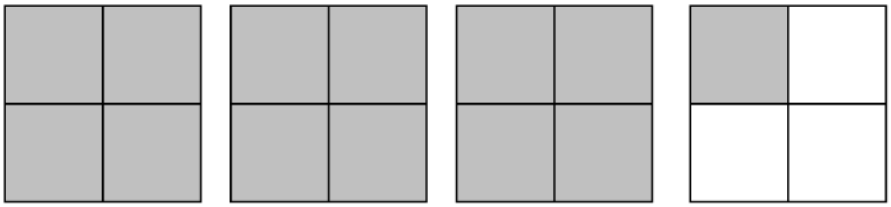
A) $1\frac{1}{12}$; $\frac{7}{6}$ B) $1\frac{7}{12}$; $\frac{7}{6}$ C) $1\frac{1}{6}$; $\frac{7}{6}$ D) $1\frac{1}{5}$; $\frac{7}{6}$

43)   43) _____

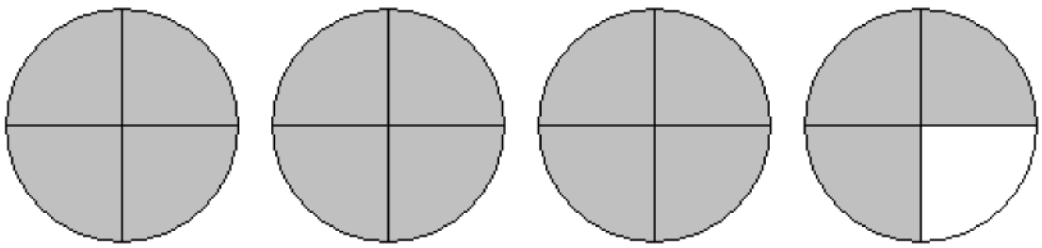
A) $1\frac{11}{12}$; $\frac{11}{6}$ B) $2\frac{5}{6}$; $\frac{11}{6}$ C) $2\frac{11}{12}$; $\frac{11}{6}$ D) $1\frac{5}{6}$; $\frac{11}{6}$

44)  44) _____

A) $2\frac{7}{9}$; $\frac{7}{3}$ B) $3\frac{1}{3}$; $\frac{7}{3}$ C) $2\frac{1}{9}$; $\frac{7}{3}$ D) $2\frac{1}{3}$; $\frac{7}{3}$

45)  45) _____

A) $3\frac{1}{4}$; $\frac{13}{4}$ B) $3\frac{13}{16}$; $\frac{13}{4}$ C) $4\frac{13}{16}$; $\frac{13}{4}$ D) $4\frac{1}{4}$; $\frac{13}{4}$

46)  46) _____

A) $3\frac{3}{4}$; $\frac{15}{4}$ B) $4\frac{3}{4}$; $\frac{15}{4}$ C) $3\frac{1}{4}$; $\frac{13}{4}$ D) $3\frac{15}{16}$; $\frac{15}{4}$

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Write the mixed number as an improper fraction.

47) $6\frac{5}{7}$ 47) _____

A) $\frac{47}{7}$ B) $\frac{47}{5}$ C) $\frac{42}{5}$ D) $\frac{42}{7}$

48) $9\frac{2}{5}$ 48) _____

A) $\frac{45}{2}$ B) $\frac{47}{2}$ C) $\frac{45}{5}$ D) $\frac{47}{5}$

49) $7\frac{3}{5}$ 49) _____

A) $\frac{38}{3}$ B) $\frac{38}{5}$ C) $\frac{35}{5}$ D) $\frac{35}{3}$

50) $5\frac{2}{5}$ 50) _____

A) $\frac{27}{5}$ B) $\frac{25}{2}$ C) $\frac{27}{2}$ D) $\frac{25}{5}$

51) $20\frac{10}{21}$ 51) _____

A) 30 B) $\frac{200}{21}$ C) $\frac{430}{21}$ D) 200

52) $279\frac{7}{8}$ 52) _____

A) 1953 B) $\frac{1953}{8}$ C) $\frac{2239}{8}$ D) 286

Write the improper fraction as a mixed or whole number.

53) $\frac{38}{3}$ 53) _____

A) $12\frac{2}{3}$ B) $\frac{2}{3}$ C) $13\frac{2}{3}$ D) $11\frac{2}{7}$

54) $\frac{29}{5}$ 54) _____

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

55) $\frac{43}{6}$ 55) _____

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

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56) $\frac{49}{7}$ 56) _____

A) $\frac{7}{2}$ B) 7 C) 48 D) 50

57) $\frac{29}{11}$ 57) _____

A) $29\frac{29}{11}$ B) $2\frac{7}{11}$ C) $\frac{11}{29}$ D) $29\frac{11}{29}$

58) $\frac{296}{11}$ 58) _____

A) $296\frac{11}{296}$ B) $296\frac{296}{11}$ C) $\frac{11}{296}$ D) $26\frac{10}{11}$

59) $\frac{182}{179}$ 59) _____

A) $1\frac{3}{179}$ B) $179\frac{3}{179}$ C) $1\frac{179}{3}$ D) $1\frac{3}{182}$

60) $\frac{927}{118}$ 60) _____

A) $7\frac{100}{118}$ B) $6\frac{101}{118}$ C) $8\frac{101}{118}$ D) $7\frac{101}{118}$

List all the factors of the number.

61) 42 61) _____

A) 7, 6, 14, 42
B) 1, 2, 3, 6, 7, 14, 21, 42
C) 1, 2, 3, 6, 7, 14, 28, 42
D) 1, 7, 6, 42

62) 28 62) _____

A) 1, 2, 4, 7, 14, 28
B) 2, 7, 14, 28
C) 1, 2, 4, 7, 8, 14, 28
D) 1, 2, 7, 14, 28

63) 36 63) _____

A) 1, 2, 4, 6, 12, 18, 36
B) 1, 2, 3, 4, 5, 6, 9, 10, 12, 18, 36
C) 2, 4, 6, 12, 18, 36
D) 1, 2, 3, 4, 6, 9, 12, 18, 36

64) 45 64) _____

A) 1, 2, 3, 5, 9, 15, 30, 45
B) 1, 3, 5, 9, 15, 30, 45
C) 1, 3, 5, 9, 15, 45
D) 1, 3, 5, 15, 45

65) 56 65) _____

A) 1, 2, 4, 7, 8, 14, 28, 56
B) 1, 2, 3, 4, 7, 8, 14, 18, 28, 56
C) 1, 2, 4, 7, 8, 14, 18, 28, 56
D) 2, 4, 7, 8, 14, 28

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66) 63 66) _____

A) 3, 5, 7, 9, 11, 21, 63
B) 1, 3, 5, 7, 9, 11, 21, 63
C) 1, 3, 7, 9, 21, 63
D) 1, 2, 3, 7, 9, 21, 36, 63

67) 66 67) _____

A) 1, 3, 11, 22, 33, 66
B) 1, 2, 3, 9, 11, 22, 33, 66
C) 1, 2, 3, 6, 11, 22, 33, 66
D) 1, 2, 3, 4, 11, 16, 22, 33, 66

68) 70 68) _____

A) 1, 2, 3, 5, 7, 9, 15, 35, 70
B) 1, 2, 5, 7, 35, 70
C) 1, 2, 5, 7, 10, 14, 35, 70
D) 1, 3, 5, 7, 9, 15, 20, 35, 70

69) 19 69) _____

A) 1 B) 19 C) no factors D) 1, 19

70) 6 70) _____

A) 2, 3 B) 2, 3, 6 C) 1, 6 D) 1, 2, 3, 6

Identify the number as prime or composite.

71) 42 71) _____

A) Prime
B) Composite

72) 73 72) _____

A) Prime
B) Composite

73) 16 73) _____

A) Composite
B) Prime

74) 157 74) _____

A) Composite
B) Prime

75) 119 75) _____

A) Composite
B) Prime

Find the prime factorization of the number. Write any repeated factors using exponents.

76) 165 76) _____

A) $3 \cdot 5 \cdot 11$ B) $5^2 \cdot 3$ C) $15 \cdot 11$ D) $3^2 \cdot 11$

77) 365 77) _____

A) $5 \cdot 71$ B) $5 \cdot 73$ C) 5^2 D) $5^2 \cdot 73$

78) 32 78) _____

A) $2 \cdot 5$ B) 5^2 C) 2^5 D) Prime

79) 175 79) _____

A) 7^2 B) $5^2 \cdot 7$ C) $25 \cdot 5$ D) $25 \cdot 7$

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80) 63 80) _____

A) $3 \cdot 7$ B) $3^3 \cdot 7$ C) $3 \cdot 7^2$ D) $3^2 \cdot 7$

81) 60 81) _____

A) $2^3 \cdot 3 \cdot 5$ B) $2 \cdot 3^2 \cdot 5$ C) $2^2 \cdot 3 \cdot 5$ D) $2 \cdot 3 \cdot 5$

82) 90 82) _____

A) $10 \cdot 3^2$ B) $2 \cdot 3 \cdot 5$ C) $2 \cdot 3^2 \cdot 5$ D) $2^2 \cdot 3^2 \cdot 5$

83) 72 83) _____

A) $2^3 \cdot 3^2$ B) $2^3 \cdot 3^3$ C) $2^3 \cdot 3$ D) $2 \cdot 3^2$

84) 252 84) _____

A) $2^4 \cdot 7$ B) $2^2 \cdot 3^2 \cdot 7$ C) $2^3 \cdot 3^2 \cdot 7$ D) $3^4 \cdot 7$

85) 792 85) _____

A) $2^4 \cdot 3 \cdot 11$ B) $2 \cdot 3^4 \cdot 11$ C) $2^3 \cdot 3^3 \cdot 11$ D) $2^3 \cdot 3^2 \cdot 11$

86) 610 86) _____

A) $2 \cdot 5 \cdot 61$ B) $2^2 \cdot 61$ C) $10 \cdot 61$ D) $5^2 \cdot 61$

87) 221 87) _____

A) $13 \cdot 17$ B) $16 \cdot 15$ C) $13^2 \cdot 17$ D) $14 \cdot 19$

88) 6500 88) _____

A) $5^4 \cdot 13$ B) $2^3 \cdot 5^2 \cdot 13$ C) $2^2 \cdot 5^3 \cdot 13$ D) $2^4 \cdot 13$

Write the fraction in simplest form.

89) $\frac{18}{45}$ 89) _____

A) $\frac{2}{9}$ B) $\frac{9}{5}$ C) $\frac{18}{45}$ D) $\frac{2}{5}$

90) $\frac{22}{77}$ 90) _____

A) $\frac{11}{7}$ B) $\frac{22}{77}$ C) $\frac{2}{7}$ D) $\frac{2}{11}$

91) $\frac{22}{49}$ 91) _____

A) $\frac{22}{49}$ B) $\frac{11}{24}$ C) $\frac{1}{49}$ D) $\frac{24}{11}$

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92) $\frac{30}{50}$ 92) _____

A) $\frac{3}{10}$ B) $\frac{30}{50}$ C) $\frac{3}{5}$ D) $\frac{10}{5}$

93) $\frac{50}{80}$ 93) _____

A) $\frac{50}{80}$ B) $\frac{10}{8}$ C) $\frac{5}{8}$ D) $\frac{5}{10}$

94) $\frac{60}{68}$ 94) _____

A) $\frac{4}{17}$ B) $\frac{15}{4}$ C) $\frac{15}{17}$ D) $\frac{60}{68}$

95) $\frac{195}{247}$ 95) _____

A) $\frac{15}{19}$ B) $\frac{195}{247}$ C) $\frac{15}{13}$ D) $\frac{13}{19}$

96) $\frac{403}{465}$ 96) _____

A) $\frac{465}{403}$ B) $\frac{13}{15}$ C) $\frac{15}{13}$ D) $\frac{403}{465}$

97) $\frac{189}{45}$ 97) _____

A) $\frac{21}{9}$ B) $\frac{5}{9}$ C) $\frac{9}{5}$ D) $\frac{21}{5}$

98) $\frac{330}{55}$ 98) _____

A) $\frac{66}{11}$ B) $\frac{30}{5}$ C) $\frac{6}{5}$ D) 6

99) $\frac{143}{91}$ 99) _____

A) $\frac{13}{7}$ B) $\frac{11}{13}$ C) $\frac{11}{7}$ D) 11

100) $\frac{870}{2030}$ 100) _____

A) $\frac{116}{203}$ B) $\frac{87}{203}$ C) $\frac{3}{7}$ D) $\frac{4}{7}$

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Determine whether the pair of fractions is equivalent.

101) $\frac{3}{9}$ and $\frac{15}{45}$ 101) _____

A) equivalent B) not equivalent

102) $\frac{1}{6}$ and $\frac{5}{102}$ 102) _____

A) equivalent B) not equivalent

103) $\frac{6}{8}$ and $\frac{22}{24}$ 103) _____

A) equivalent B) not equivalent

104) $\frac{5}{8}$ and $\frac{60}{96}$ 104) _____

A) not equivalent B) equivalent

105) $\frac{27}{36}$ and $\frac{24}{32}$ 105) _____

A) equivalent B) not equivalent

106) $\frac{2}{14}$ and $\frac{3}{28}$ 106) _____

A) not equivalent B) equivalent

Solve. Write the fractions in simplest form.

107) There are 5280 feet in a mile. What fraction of a mile is represented by 330 feet? 107) _____

A) $\frac{1}{176}$ B) $\frac{1}{15}$ C) $\frac{330}{5280}$ D) $\frac{1}{16}$

108) There are 100 centimeters in 1 meter. What fraction of a meter is 12 centimeters? 108) _____

A) $\frac{3}{22}$ B) $\frac{2}{25}$ C) $\frac{12}{100}$ D) $\frac{3}{25}$

109) A company employs 144,000 employees worldwide. About 46,800 employees work in the United States. What fraction of the employees work in the United States? 109) _____

A) $\frac{13}{4}$ B) $\frac{46,800}{144,000}$ C) $\frac{13}{400}$ D) $\frac{13}{40}$

110) A company employs 378,000 employees worldwide. About 27,000 employees work in the United States. What fraction of the employees do NOT work in the United States? 110) _____

A) $\frac{351,000}{378,000}$ B) $\frac{27,000}{378,000}$ C) $\frac{13}{14}$ D) $\frac{1}{14}$

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111) There are 4600 spectators at a ball game. If 2600 are males, what fraction of the spectators are males? 111) _____

A) $\frac{2600}{\text{males}}$ B) $\frac{10}{13}$ C) $\frac{13}{23}$ D) $\frac{10}{23}$

112) There are 7000 students at a university. If 2100 are male, what fraction of the students are female ? 112) _____

A) $\frac{2100}{7000}$ B) $\frac{7}{10}$ C) $\frac{3}{10}$ D) $\frac{7}{3}$

113) A real estate agent categorized 100 available homes by housing style. 113) _____

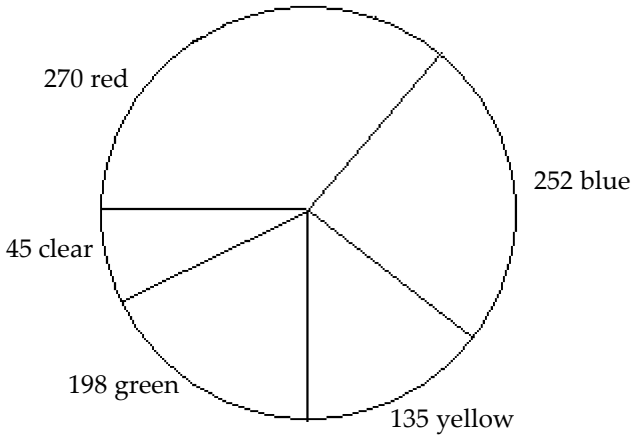
Distribution of Houses by Style

Housing Style	Number of Homes
Two Story	38
One and One–Half Story	12
Raised Ranch	6
Split Level	25
Ranch	19

What fraction of available homes are one and one–half story homes?

A) $\frac{12}{100}$ B) $\frac{3}{22}$ C) $\frac{12}{88}$ D) $\frac{3}{25}$

114) The following graph is called a circle graph or pie chart. Each sector (shaped like a piece of pie) shows the number of each color of marbles that Emma has: 270 are red, 252 are blue, 135 are yellow, 198 are green, and 45 are clear. What fraction of the marbles are red? Write the fraction in simplest form. 114) _____



A) $\frac{3}{7}$ B) $\frac{270}{900}$ C) $\frac{3}{10}$ D) $\frac{1}{5}$

Multiply. Write the answer in simplest form.

115) $\frac{5}{7} \cdot \frac{4}{9}$ 115) _____

A) $\frac{9}{16}$ B) $\frac{20}{63}$ C) $\frac{63}{20}$ D) $\frac{28}{45}$

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116) $\frac{7}{2} \cdot \frac{11}{17}$ 116) _____

A) $\frac{119}{22}$ B) $\frac{24}{13}$ C) $\frac{18}{19}$ D) $\frac{77}{34}$

117) $\frac{1}{4} \cdot \frac{12}{23}$ 117) _____

A) $\frac{13}{27}$ B) $\frac{3}{2}$ C) $\frac{3}{23}$ D) $\frac{23}{48}$

118) $\frac{3}{4} \cdot \frac{5}{8} \cdot \frac{2}{5}$ 118) _____

A) $\frac{3}{16}$ B) $\frac{12}{25}$ C) $\frac{3}{17}$ D) $\frac{15}{16}$

119) $\frac{3}{9} \cdot \frac{21}{14}$ 119) _____

A) $\frac{24}{23}$ B) $\frac{17}{30}$ C) $\frac{1}{2}$ D) $\frac{2}{9}$

120) $\frac{5}{1} \cdot \frac{12}{17}$ 120) _____

A) $\frac{60}{17}$ B) $\frac{22}{13}$ C) $\frac{17}{18}$ D) $\frac{85}{12}$

121) $0 \cdot \frac{4}{9}$ 121) _____

A) $\frac{4}{9}$ B) $\frac{9}{4}$ C) 0 D) undefined

122) $\frac{3}{5} \cdot 0$ 122) _____

A) $\frac{3}{5}$ B) 0 C) $\frac{5}{3}$ D) undefined

123) $\frac{2}{5} \cdot \frac{1}{2} \cdot \frac{16}{19}$ 123) _____

A) $\frac{1}{5}$ B) $\frac{23}{304}$ C) $\frac{16}{95}$ D) $\frac{95}{16}$

124) $\frac{2}{9} \cdot 0 \cdot \frac{4}{5}$ 124) _____

A) undefined B) $\frac{18}{29}$ C) $\frac{8}{45}$ D) 0

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125) $\frac{7}{9} \cdot \frac{7}{11} \cdot \frac{27}{9} \cdot \frac{18}{14}$ 125) _____

A) $\frac{11}{21}$ B) $\frac{21}{11}$ C) $\frac{49}{99}$ D) $\frac{59}{43}$

126) $7\frac{1}{4} \cdot 4$ 126) _____

A) 28 B) 29 C) $11\frac{1}{4}$ D) 112

127) $2 \cdot 4\frac{1}{10}$ 127) _____

A) $6\frac{1}{5}$ B) $8\frac{1}{5}$ C) $8\frac{1}{10}$ D) $8\frac{3}{5}$

128) $1\frac{2}{7} \cdot \frac{4}{9}$ 128) _____

A) $1\frac{8}{63}$ B) $\frac{2}{7}$ C) $2\frac{4}{7}$ D) $\frac{4}{7}$

129) $3\frac{3}{4} \cdot 5\frac{1}{3}$ 129) _____

A) 13 B) 19 C) 15 D) 20

130) $2 \cdot 5\frac{3}{10}$ 130) _____

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

131) $5\frac{1}{5} \cdot 5 \cdot \frac{2}{9}$ 131) _____

A) $25\frac{9}{10}$ B) $5\frac{7}{9}$ C) $25\frac{7}{9}$ D) $10\frac{7}{9}$

132) $6 \cdot 4\frac{5}{14}$ 132) _____

A) $26\frac{3}{7}$ B) $26\frac{1}{7}$ C) $10\frac{1}{7}$ D) $24\frac{5}{14}$

133) $2\frac{4}{9} \cdot \frac{3}{8}$ 133) _____

A) $2\frac{12}{72}$ B) $4\frac{11}{12}$ C) $\frac{11}{12}$ D) $\frac{9}{12}$

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134) $40 \cdot \frac{5}{8}$ 134) _____

A) $\frac{107}{16}$ B) 25 C) 20 D) $\frac{200}{8}$

135) $\frac{1}{6} \cdot 9$ 135) _____

A) $\frac{1}{54}$ B) $\frac{55}{6}$ C) $\frac{3}{2}$ D) $\frac{5}{3}$

136) $\frac{1}{17} \cdot 1$ 136) _____

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

137) $1 \cdot \frac{8}{13}$ 137) _____

A) $\frac{13}{8}$ B) 1 C) $\frac{9}{14}$ D) $\frac{8}{13}$

138) $\frac{5}{14} \cdot 56 \cdot \frac{70}{28}$ 138) _____

A) 50 B) $\frac{25}{28}$ C) $\frac{1}{50}$ D) 56

139) $2\frac{1}{4} \cdot 4\frac{1}{10} \cdot 5\frac{2}{3}$ 139) _____

A) $40\frac{1}{60}$ B) $11\frac{1}{48}$ C) $40\frac{1}{48}$ D) $\frac{2091}{40}$

Multiply. Write the answer in simplest form. Find both an exact product and an estimated product.

140) $3\frac{1}{5} \cdot 4\frac{1}{4}$ 140) _____

A) Exact: $\frac{21}{2}$
Estimate: 20

B) Exact: $\frac{68}{5}$
Estimate: 12

C) Exact: $\frac{21}{2}$
Estimate: 12

D) Exact: $\frac{68}{5}$
Estimate: 20

141) $3\frac{3}{4} \cdot 4\frac{2}{3}$ 141) _____

A) Exact: Exact: $\frac{169}{12}$
Estimate: 12

B) Exact: $\frac{169}{12}$
Estimate: 20

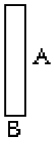
C) Exact: $\frac{35}{2}$
Estimate: 12

D) Exact: $\frac{35}{2}$
Estimate: 20

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Solve. Write the answer in simplest form.

142) Find the area of the rectangle. Write the answer in simplest form. Recall that the area = (length) · (width). 142) _____

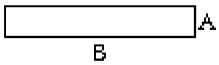


$A = \frac{6}{11}$ foot

$B = \frac{1}{3}$ foot

A) $\frac{2}{11}$ square foot B) $\frac{1}{2}$ square foot C) $\frac{3}{7}$ square foot D) $\frac{6}{33}$ square foot

143) Find the area of the rectangle. Write the answer in simplest form. Recall that the area = (length) · (width). 143) _____



$A = \frac{2}{13}$ yard

B = 26 yards

A) 4 square yards B) $\frac{52}{13}$ square yards

C) $\frac{340}{13}$ square yards D) $\frac{28}{13}$ square yards

144) Raya is saving $\frac{3}{20}$ of her monthly income of $10,020 for retirement. How much money is she setting aside each month for retirement? 144) _____

A) $167 B) $1503 C) $66,800 D) $501

145) Maria exercises for $1\frac{2}{9}$ hours every Saturday. She runs for $\frac{3}{5}$ of the time that she exercises. How much time does she spend running every Saturday? 145) _____

A) $1\frac{6}{45}$ hours B) $\frac{11}{15}$ hour C) $\frac{9}{15}$ hour D) $2\frac{11}{15}$ hours

146) Byron rode his bicycle $2\frac{7}{15}$ miles on each of 9 days. What is the total distance Byron rode? 146) _____

A) $18\frac{7}{15}$ miles B) $22\frac{1}{5}$ miles C) $22\frac{3}{5}$ miles D) $11\frac{1}{5}$ miles

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147) Jennifer is building some shelves and requires 18 pieces of wood that are each $1\frac{4}{9}$ feet long. What is the total length of wood that Jennifer needs? 147) _____

A) 18 feet B) 26 feet C) 162 feet D) $19\frac{4}{9}$ feet

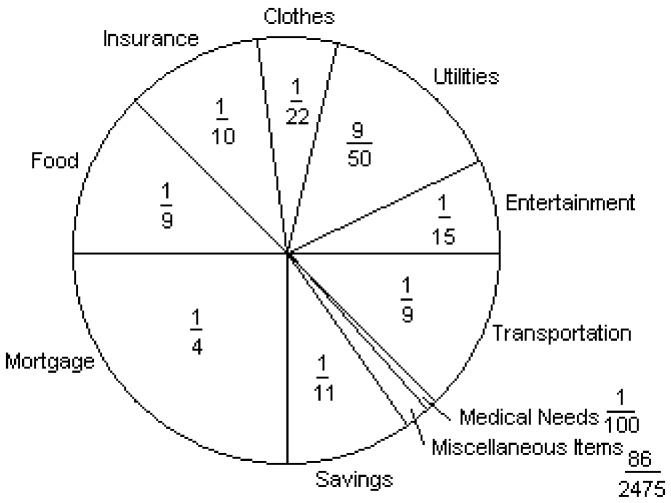
148) A rectangular flower bed in front of a building measures $4\frac{1}{2}$ feet by $2\frac{2}{3}$ feet. What is the total area of the flower bed? Hint: The area of a rectangle is the product of the length times the width. 148) _____

A) 13 square feet B) 12 square feet C) 11 square feet D) $8\frac{2}{6}$ square feet

149) A recipe calls for $\frac{1}{2}$ of a pound of sausage. How much sausage should be used if only $\frac{1}{3}$ of the recipe is being made? 149) _____

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

150) The circle graph below shows the fractional part of the Suarez family's budget spent in each categor month. 150) _____



If the Suarez's income last month was $2500, how much money did they spend on their medical needs? Round to the nearest cent, if necessary.

A) $25.00 B) $166.67 C) $450.00 D) $113.64

151) Find $\frac{1}{11}$ of 77. 151) _____

A) 7 B) $\frac{1}{847}$ C) 11 D) 847

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152) Find $\frac{1}{2}$ of 120. 152) _____

A) 120 B) $\frac{1}{240}$ C) 240 D) 60

Find the reciprocal of the number.

153) $\frac{4}{9}$ 153) _____

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

154) $\frac{1}{4}$ 154) _____

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

155) $\frac{1}{14}$ 155) _____

A) $\frac{1}{14}$ B) 1 C) 14 D) 0

156) 5 156) _____

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

157) 18 157) _____

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

158) $\frac{15}{7}$ 158) _____

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

Divide. Write the answer in simplest form.

159) $\frac{2}{4} \div \frac{4}{6}$ 159) _____

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

160) $\frac{8}{10} \div \frac{1}{11}$ 160) _____

A) $\frac{44}{5}$ B) $\frac{4}{110}$ C) $\frac{3}{7}$ D) $27\frac{2}{4}$

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161) $\frac{1}{13} \div \frac{5}{17}$ 161) _____

A) $\frac{16}{65}$ B) $\frac{17}{65}$ C) $\frac{17}{63}$ D) $\frac{15}{65}$

162) $\frac{2}{17} \div \frac{7}{15}$ 162) _____

A) $\frac{29}{119}$ B) $\frac{30}{119}$ C) $\frac{10}{39}$ D) $\frac{4}{17}$

163) $\frac{3}{14} \div \frac{7}{20}$ 163) _____

A) $\frac{30}{49}$ B) $\frac{30}{47}$ C) $\frac{28}{49}$ D) $\frac{29}{49}$

164) $\frac{4}{13} \div \frac{9}{11}$ 164) _____

A) $\frac{44}{115}$ B) $\frac{42}{117}$ C) $\frac{43}{117}$ D) $\frac{44}{117}$

165) $\frac{9}{2} \div \frac{9}{8}$ 165) _____

A) $\frac{9}{5}$ B) 4 C) $\frac{81}{16}$ D) $\frac{17}{11}$

166) $\frac{22}{5} \div \frac{2}{5}$ 166) _____

A) 11 B) 12 C) $\frac{19}{2}$ D) 10

Solve.

167) How many $\frac{3}{8}$ pound boxes of cereal can be made from 4608 pound of cereal? 167) _____

A) 576 boxes B) 12,288 boxes C) 1728 boxes D) 1536 boxes

168) On a recent trip, Asha drove 258 miles on $10\frac{1}{6}$ gallons of gasoline. How many miles per gallon did she average? 168) _____

A) $25\frac{23}{61}$ miles per gallon B) 2623 miles per gallon

C) $\frac{61}{1548}$ miles per gallon D) $430\frac{1}{6}$ miles per gallon

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169) Mark is filling decorative oil lamps for a reception. Each lamp can hold $\frac{1}{5}$ cup of oil. Mark has $2\frac{1}{5}$ cups of oil available. How many oil lamps can Mark fill completely? 169) _____

A) 12 oil lamps B) $9\frac{1}{2}$ oil lamps C) 10 oil lamps D) 11 oil lamps

170) Ted walks around a lake on a path that is $5\frac{1}{6}$ miles long. It takes him $4\frac{8}{9}$ hours to complete his walk. What is his average speed (in miles per hour)? 170) _____

A) $2\frac{5}{88}$ miles per hour B) $1\frac{5}{88}$ miles per hour

C) $1\frac{6}{88}$ miles per hour D) $1\frac{5}{87}$ miles per hour

171) Toni needs to cut a $4\frac{1}{4}$ – foot board into 6 equal pieces. How long should each piece be? 171) _____

A) $\frac{11}{12}$ ft B) $4\frac{1}{24}$ ft C) $\frac{17}{24}$ ft D) $25\frac{1}{2}$ ft

Divide. Write the answer in simplest form.

172) $0 \div \frac{1}{5}$ 172) _____

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

173) $\frac{2}{6} \div 0$ 173) _____

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

174) $\frac{3}{5} \div \frac{3}{5}$ 174) _____

A) $\frac{5}{3}$ B) 1 C) $\frac{9}{25}$ D) $\frac{3}{5}$

Perform the indicated operation. Write the answer in simplest form.

175) $\frac{77}{25} \cdot \frac{125}{121} \div \frac{7}{11}$ 175) _____

A) $\frac{1}{5}$ B) $\frac{5929}{3125}$ C) 5 D) $\frac{245}{121}$

Divide. Write the answer in simplest form.

176) $4\frac{5}{9} \div 1\frac{3}{5}$ 176) _____

A) $3\frac{61}{72}$ B) $2\frac{62}{72}$ C) $2\frac{61}{71}$ D) $2\frac{61}{72}$

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177) $5\frac{2}{3} \div 1\frac{1}{8}$ 177) _____

A) $5\frac{1}{26}$ B) $5\frac{2}{27}$ C) $6\frac{1}{27}$ D) $5\frac{1}{27}$

178) $44 \div 2\frac{1}{5}$ 178) _____

A) $18\frac{1}{2}$ B) 19 C) 20 D) 21

179) $5\frac{5}{9} \div 10$ 179) _____

A) $\frac{6}{9}$ B) $\frac{5}{8}$ C) $\frac{4}{9}$ D) $\frac{5}{9}$

180) $5\frac{3}{5} \div 2\frac{1}{5}$ 180) _____

A) $2\frac{6}{10}$ B) $3\frac{6}{11}$ C) $2\frac{7}{11}$ D) $2\frac{6}{11}$

181) $5\frac{3}{5} \div \frac{1}{5}$ 181) _____

A) $26\frac{1}{2}$ B) 27 C) 28 D) 29

182) $\frac{4}{6} \div 7$ 182) _____

A) $1\frac{4}{7}$ B) $4\frac{2}{3}$ C) $\frac{2}{21}$ D) $\frac{5}{42}$

183) $32 \div \frac{8}{5}$ 183) _____

A) 21 B) 19 C) 20 D) $\frac{37}{2}$

184) $1 \div \frac{3}{6}$ 184) _____

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

185) $0 \div 9\frac{4}{9}$ 185) _____

A) $\frac{4}{9}$ B) 0 C) $9\frac{4}{9}$ D) undefined

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186) $\frac{2}{3} \div 1$ 186) _____

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

Solve.

187) How many $\frac{4}{13}$ pound boxes of cereal can be made from 11,804 pound of cereal? 187) _____

A) 2951 boxes B) 3632 boxes C) 908 boxes D) 38,363 boxes

188) On a recent trip, Asha drove 256 miles on $10\frac{1}{4}$ gallons of gasoline. How many miles per gallon did she average? 188) _____

A) $\frac{41}{1024}$ miles per gallon B) 2624 miles per gallon

C) $24\frac{40}{41}$ miles per gallon D) $640\frac{1}{4}$ miles per gallon

189) Mark is filling decorative oil lamps for a reception. Each lamp can hold $\frac{2}{5}$ cup of oil. Mark has $1\frac{3}{5}$ cups of oil available. How many oil lamps can Mark fill completely? 189) _____

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

190) Ted walks around a lake on a path that is $4\frac{1}{6}$ miles long. It takes him $4\frac{1}{8}$ hours to complete his walk. What is his average speed (in miles per hour)? 190) _____

A) $1\frac{1}{99}$ miles per hour B) $1\frac{2}{99}$ miles per hour

C) $1\frac{1}{98}$ miles per hour D) $2\frac{1}{99}$ miles per hour

191) Toni needs to cut a $5\frac{2}{3}$ – foot board into 3 equal pieces. How long should each piece be? 191) _____

A) $2\frac{1}{3}$ ft B) $1\frac{8}{9}$ ft C) $5\frac{2}{9}$ ft D) 17 ft

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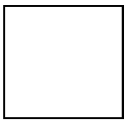
192) The area of the rectangle is 12 square feet. If its length is $5\frac{1}{4}$ feet, find its width. 192) _____



$5\frac{1}{4}$ feet

A) 63 ft B) $5\frac{1}{4}$ feet C) 21 ft D) $2\frac{2}{7}$ ft

193) The perimeter of the square is $12\frac{3}{7}$ meters. Find the length of each side. 193) _____



A) $3\frac{3}{28}$ m B) $6\frac{3}{14}$ m C) $49\frac{5}{7}$ m D) $24\frac{6}{7}$ m

Solve. Write the answer in simplest form.

194) Approximately $\frac{3}{11}$ of a worldwide corporation's employees live and work in the United States. If 5973 employees live and work in the United States, how many employees does the corporation have worldwide? 194) _____

A) 1629 employees B) 1991 employees
C) 21,901 employees D) 543 employees

Fill in the blank with one of the words or phrases listed below.

mixed number	**equivalent**	**0**	**undefined**
composite number	**improper fraction**	**simplest form**	**prime factorization**
prime number	**proper fraction**	**numerator**	**denominator**
reciprocals	**cross products**		

195) Two numbers are _____ of each other if their product is 1. 195) _____

A) undefined B) composite number
C) reciprocals D) mixed number

196) A(n) _____ is a natural number greater than 1 that is not prime. 196) _____

A) composite number B) numerator
C) denominator D) mixed number

197) Fractions that represent the same portion of a whole are called _____ fractions. 197) _____

A) simplest form B) equivalent C) prime number D) undefined

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198) A(n) _____ is a fraction whose numerator is greater than or equal to its denominator. 198) _____

A) proper fraction
B) prime number
C) improper fraction
D) mixed number

199) A(n) _____ is a natural number greater than 1 whose only factors are 1 and itself. 199) _____

A) numerator
B) prime number
C) mixed number
D) composite number

200) A fraction is in _____ when the numerator and the denominator have no factors in common other than 1. 200) _____

A) prime factorization
B) 0
C) simplest form
D) equivalent

201) A(n) _____ is one whose numerator is less than its denominator. 201) _____

A) proper fraction
B) mixed number
C) improper fraction
D) prime number

202) A(n) _____ contains a whole number part and a fraction part. 202) _____

A) prime factorization
B) mixed number
C) prime number
D) composite number

203) In the fraction $\frac{7}{9}$, the 7 is called the _____ and the 9 is called the _____. 203) _____

A) composite number, prime number
B) numerator, prime number
C) denominator, numerator
D) numerator, denominator

204) The _____ of a number is the factorization in which all the factors are prime numbers. 204) _____

A) prime factorization
B) simplest form
C) 0
D) reciprocals

205) The fraction $\frac{3}{0}$ is _____. 205) _____

A) undefined
B) prime factorization
C) proper fraction
D) 0

206) The fraction $\frac{0}{5}$ is _____. 206) _____

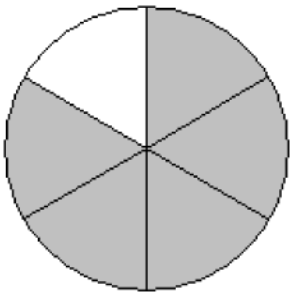
A) proper fraction
B) prime factorization
C) undefined
D) 0

207) In $\frac{a}{b} = \frac{c}{d}$, $a \cdot d$ and $b \cdot c$ are called _____. 207) _____

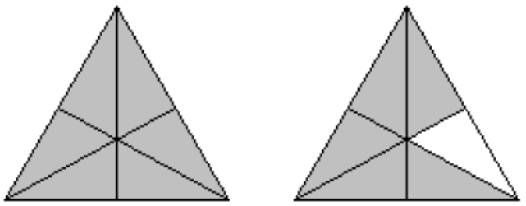
A) simplest form
B) prime factorization
C) cross products
D) reciprocals

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Write a fraction to represent the shaded area.

208)  208) _____

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

209)  209) _____

A) $2\frac{11}{12}$ or $\frac{11}{6}$ B) $2\frac{5}{6}$ or $\frac{11}{6}$ C) $1\frac{5}{6}$ or $\frac{11}{6}$ D) $1\frac{11}{12}$ or $\frac{11}{6}$

Write the mixed number as an improper fraction.

210) $7\frac{6}{7}$ 210) _____

A) $\frac{55}{6}$ B) $\frac{49}{7}$ C) $\frac{49}{6}$ D) $\frac{55}{7}$

211) $19\frac{13}{19}$ 211) _____

A) 247 B) 13 C) $\frac{374}{19}$ D) 32

Write the improper fraction as a mixed or whole number.

212) $\frac{28}{5}$ 212) _____

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

213) $\frac{126}{7}$ 213) _____

A) $\frac{18}{2}$ B) 127 C) 18 D) 125

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Write the fraction in simplest form.

214) $\frac{175}{200}$ 214) _____

A) $\frac{7}{25}$ B) $\frac{7}{8}$ C) $\frac{25}{8}$ D) $\frac{175}{200}$

215) $\frac{240}{272}$ 215) _____

A) $\frac{15}{17}$ B) $\frac{16}{17}$ C) $\frac{15}{16}$ D) $\frac{240}{272}$

Determine whether the pair of fractions is equivalent.

216) $\frac{5}{9}$ and $\frac{20}{36}$ 216) _____

A) not equivalent B) equivalent

217) $\frac{3}{7}$ and $\frac{51}{84}$ 217) _____

A) not equivalent B) equivalent

Find the prime factorization of the number.

218) 198 218) _____

A) $2 \cdot 3 \cdot 11$ B) $2^2 \cdot 3^2 \cdot 11$ C) $22 \cdot 3^2$ D) $2 \cdot 3^2 \cdot 11$

219) 2200 219) _____

A) $2 \cdot 5^4 \cdot 11$ B) $2^3 \cdot 5^3 \cdot 11$ C) $2^4 \cdot 5 \cdot 11$ D) $2^3 \cdot 5^2 \cdot 11$

Perform the indicated operation. Write the answer in simplest form.

220) $\frac{3}{4} \div \frac{6}{7}$ 220) _____

A) $\frac{5}{12}$ B) $\frac{9}{11}$ C) $\frac{9}{14}$ D) $\frac{7}{8}$

221) $\frac{10}{7} \cdot \frac{17}{19}$ 221) _____

A) $\frac{170}{133}$ B) $\frac{190}{119}$ C) $\frac{29}{24}$ D) $\frac{27}{26}$

222) $\frac{3}{4} \cdot 6$ 222) _____

A) $\frac{9}{4}$ B) $\frac{9}{2}$ C) $\frac{27}{4}$ D) $\frac{1}{8}$

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223) $\frac{1}{7} \cdot \frac{2}{3}$ 223) _____

A) $\frac{3}{10}$ B) $\frac{2}{21}$ C) $\frac{14}{3}$ D) $\frac{21}{2}$

224) $20 \div \frac{4}{3}$ 224) _____

A) 16 B) $\frac{27}{2}$ C) 14 D) 15

225) $2\frac{4}{9} \div 11$ 225) _____

A) $\frac{2}{9}$ B) $\frac{2}{8}$ C) $\frac{1}{9}$ D) $\frac{3}{9}$

226) $\frac{2}{5} \cdot \frac{1}{5} \cdot \frac{3}{8}$ 226) _____

A) $\frac{1}{6}$ B) $\frac{1}{50}$ C) $\frac{3}{4}$ D) $\frac{3}{100}$

227) $1\frac{4}{5} \div \frac{1}{5}$ 227) _____

A) 10 B) 9 C) 8 D) $7\frac{1}{2}$

228) $\frac{38}{7} \div \frac{1}{7}$ 228) _____

A) 39 B) $\frac{73}{2}$ C) 37 D) 38

229) $3\frac{3}{5} \cdot 3\frac{1}{3}$ 229) _____

A) 9 B) 12 C) 7 D) 11

230) $40 \div 1\frac{1}{3}$ 230) _____

A) 29 B) 30 C) $28\frac{1}{2}$ D) 31

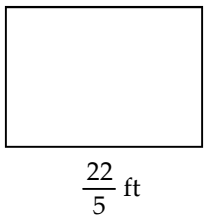
231) $\frac{19}{9} \cdot \frac{18}{5} \cdot 4$ 231) _____

A) $\frac{19}{10}$ B) $\frac{152}{5}$ C) $\frac{38}{5}$ D) $\frac{41}{45}$

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Solve. Write the answer in simplest form.

232) Find the area of each rectangle. Write the answer in simplest form. Recall that the area = (length) · (width). 232) _____



A) $\frac{5}{7}$ square foot B) $\frac{4}{10}$ square foot C) $\frac{4}{7}$ square foot D) $\frac{2}{5}$ square foot

233) On a recent trip, Asha drove 268 miles on $12\frac{1}{6}$ gallons of gasoline. How many miles per gallon did she average? 233) _____

A) $22\frac{2}{73}$ miles per gallon B) $536\frac{1}{6}$ miles per gallon

C) $3260\frac{2}{3}$ miles per gallon D) $\frac{73}{1608}$ miles per gallon

234) A rectangular flower bed in front of a building measures $11\frac{1}{5}$ feet by $5\frac{5}{8}$ feet. What is the total area of the flower bed? 234) _____

A) 63 square feet B) $55\frac{5}{40}$ square feet

C) 64 square feet D) 61 square feet

235) Rennie is saving $\frac{3}{14}$ of her monthly income of $6594 for retirement. How much money is she setting aside each month for retirement? 235) _____

A) $1413 B) $30,772 C) $471 D) $157

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

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

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101) A
102) B
103) B
104) B
105) A
106) A
107) D
108) D
109) D
110) C
111) C
112) B
113) D
114) C
115) B
116) D
117) C
118) A
119) C
120) A
121) C
122) B
123) C
124) D
125) B
126) B
127) B
128) D
129) D
130) B
131) B
132) B
133) C
134) B
135) C
136) C
137) D
138) A
139) D
140) B
141) D
142) A
143) A
144) B
145) B
146) B
147) B
148) B
149) B
150) A

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151) A
152) D
153) B
154) C
155) C
156) A
157) A
158) D
159) A
160) A
161) B
162) B
163) A
164) D
165) B
166) A
167) B
168) A
169) D
170) B
171) C
172) A
173) A
174) B
175) C
176) D
177) D
178) C
179) D
180) D
181) C
182) C
183) C
184) A
185) B
186) B
187) D
188) C
189) B
190) A
191) B
192) D
193) A
194) C
195) C
196) A
197) B
198) C
199) B
200) C

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201) A
202) B
203) D
204) A
205) A
206) D
207) C
208) A
209) C
210) D
211) C
212) A
213) C
214) B
215) A
216) B
217) A
218) D
219) D
220) D
221) A
222) B
223) B
224) D
225) A
226) D
227) B
228) D
229) B
230) B
231) B
232) D
233) A
234) A
235) A

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