

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

A) Numerator 3

Denominator 4

B) Numerator 4

Denominator 3

C) Numerator 7

Denominator 1

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

Denominator 3

Answer: A

**Simplify.**

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

A) 31

B) 1

C) 0

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

Answer: B

3)  $\frac{17}{1}$

A)  $\frac{1}{17}$

B) 17

C) 16

D) 1

Answer: B

4)  $\frac{34}{0}$

A) 34

B) undefined

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

D) 0

Answer: B

5)  $\frac{0}{38}$

A)  $\frac{1}{38}$

B) undefined

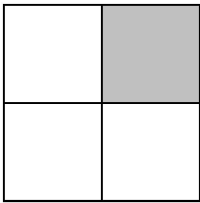
C) 0

D) 38

Answer: C

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

6)



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

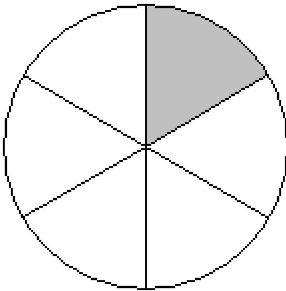
B)  $\frac{1}{4}$

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

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

Answer: B

7)



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

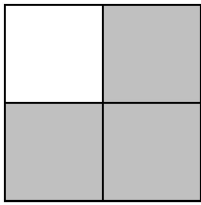
B)  $\frac{5}{6}$

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

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

Answer: C

8)



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

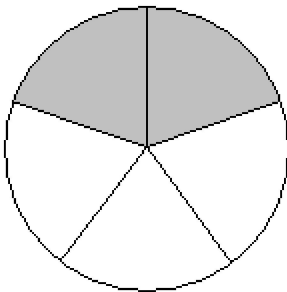
B)  $\frac{3}{4}$

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

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

Answer: B

9)



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

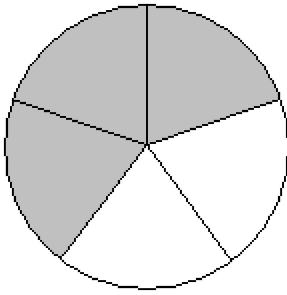
B)  $\frac{5}{2}$

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

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

Answer: A

10)



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

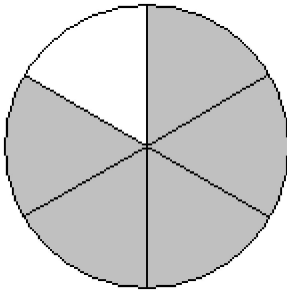
B)  $\frac{2}{3}$

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

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

Answer: D

11)



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

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

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

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

Answer: C

12)



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

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

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

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

Answer: D

13)



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

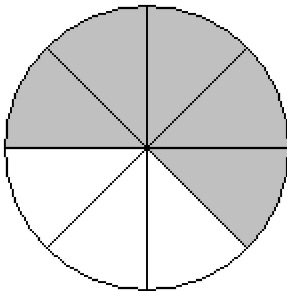
B)  $\frac{5}{3}$

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

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

Answer: D

14)



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

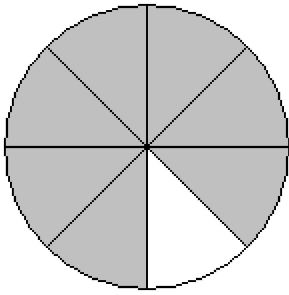
B)  $\frac{5}{8}$

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

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

Answer: B

15)



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

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

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

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

Answer: A

16)



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

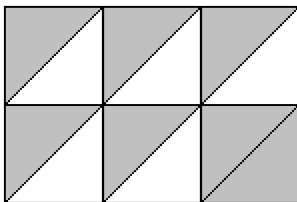
B)  $\frac{4}{9}$

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

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

Answer: B

17)



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

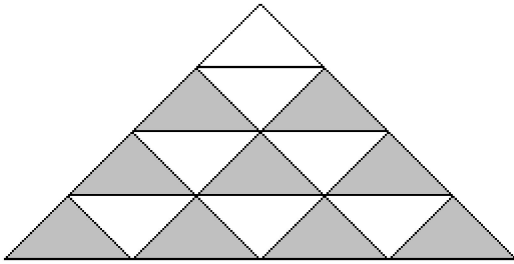
B)  $\frac{5}{7}$

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

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

Answer: D

18)



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

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

C)  $\frac{9}{16}$

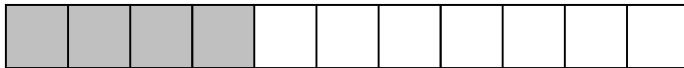
D)  $\frac{7}{16}$

Answer: C

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

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

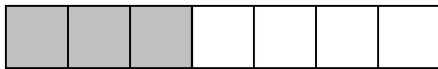
A)



B)



C)







D)







Answer: D

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

- A) 
- B) 
- C) 
- D) 





Answer: C

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

- A) 
- B) 
- C) 
- D) 

Answer: C

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

- A) 
- B) 
- C) 
- D) 

Answer: C



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

A)



B)



C)



D)



Answer: D

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

A)



B)



C)



D)



Answer: D

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

A)



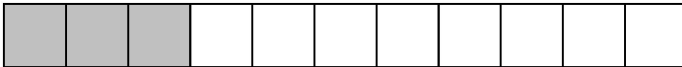
B)



C)



D)



Answer: B

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

A)



B)



C)



D)



Answer: D

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

A)



B)



C)



D)



Answer: D

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

A)



B)



C)



D)



Answer: B

**Write the fraction.**

29) Of the 240 students at a private school, 36 are sophomores. What fraction of the students are sophomores?

A)  $\frac{36}{240}$

B)  $\frac{204}{36}$

C)  $\frac{36}{204}$

D)  $\frac{240}{36}$

Answer: A

30) Of the 221 students at a college, 33 are seniors. What fraction of the students are NOT seniors?

A)  $\frac{221}{188}$

B)  $\frac{33}{221}$

C)  $\frac{188}{33}$

D)  $\frac{188}{221}$

Answer: D

31) Of the 83 doctors at a hospital, 70 are men. What fraction of the doctors are men?

A)  $\frac{70}{13}$

B)  $\frac{13}{70}$

C)  $\frac{70}{83}$

D)  $\frac{83}{70}$

Answer: C

32) Of the 76 lawyers at a law firm, 65 are men. What fraction of the lawyers are NOT men?

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

B)  $\frac{76}{11}$

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

D)  $\frac{11}{76}$

Answer: D

33) According to a recent study, 2 out of 12 visits to a hospital emergency room were for an injury. What fraction of emergency room visits are NOT injury-related?

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

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

C)  $\frac{10}{12}$

D)  $\frac{12}{10}$

Answer: C

34) There are 100 centimeters in a meter. What fractional part of a meter does 46 centimeters represent?

A)  $\frac{46}{100}$

B)  $\frac{54}{46}$

C)  $\frac{100}{46}$

D)  $\frac{46}{54}$

Answer: A

35) In a science class containing 41 students, there are 8 freshmen, 11 sophomores, 5 juniors, and the rest are seniors. What fraction of the class is seniors?

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

B)  $\frac{17}{41}$

C)  $\frac{41}{17}$

D)  $\frac{17}{60}$

Answer: B

36) At Smith's Apple Orchard one day, 53 people were picking apples, 29 people were picking pumpkins, and 18 people were picking raspberries. What fractional part of the people were picking pumpkins?

A)  $\frac{29}{71}$

B)  $\frac{53}{100}$

C)  $\frac{29}{100}$

D)  $\frac{100}{29}$

Answer: C

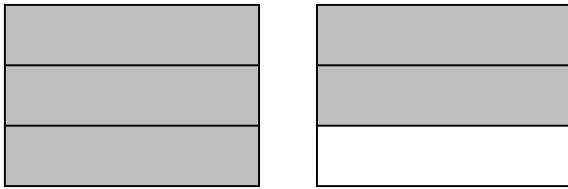
37) At Smith's Apple Orchard one day, 52 people were picking apples, 31 people were picking pumpkins, and 17 people were picking raspberries. What fractional part of the people were picking either apples or pumpkins?

- A)  $\frac{83}{17}$
- B)  $\frac{83}{100}$
- C)  $\frac{31}{100}$
- D)  $\frac{52}{100}$

Answer: B

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

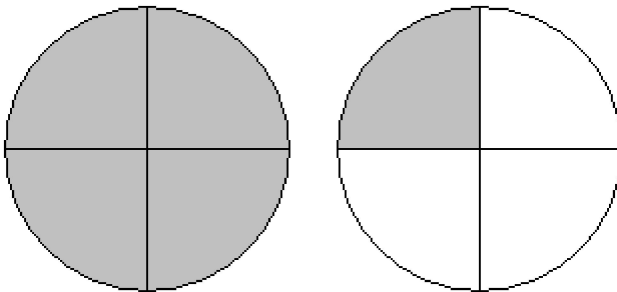
38)



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

Answer: D

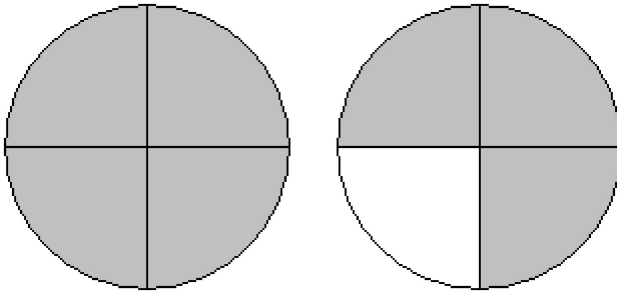
39)



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

Answer: A

40)



A)  $2\frac{3}{4}; \frac{7}{4}$

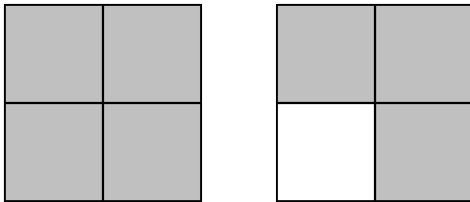
B)  $4\frac{3}{4}; \frac{7}{4}$

C)  $1\frac{7}{8}; \frac{7}{4}$

D)  $1\frac{3}{4}; \frac{7}{4}$

Answer: D

41)



A)  $4\frac{3}{4}; \frac{7}{4}$

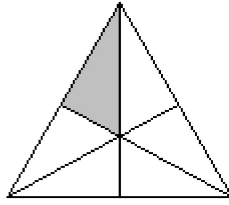
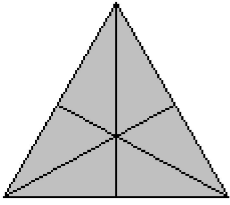
B)  $2\frac{7}{8}; \frac{7}{4}$

C)  $1\frac{7}{8}; \frac{7}{4}$

D)  $1\frac{3}{4}; \frac{7}{4}$

Answer: D

42)



A)  $1\frac{7}{12}; \frac{7}{6}$

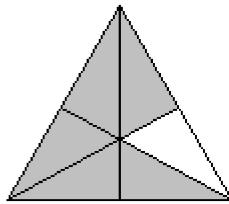
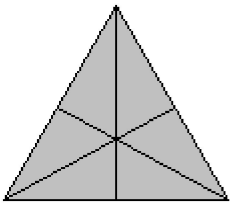
B)  $1\frac{1}{12}; \frac{7}{6}$

C)  $1\frac{1}{6}; \frac{7}{6}$

D)  $1\frac{1}{5}; \frac{7}{6}$

Answer: C

43)



A)  $1\frac{11}{12}; \frac{11}{6}$

B)  $1\frac{5}{6}; \frac{11}{6}$

C)  $2\frac{5}{6}; \frac{11}{6}$

D)  $2\frac{11}{12}; \frac{11}{6}$

Answer: B

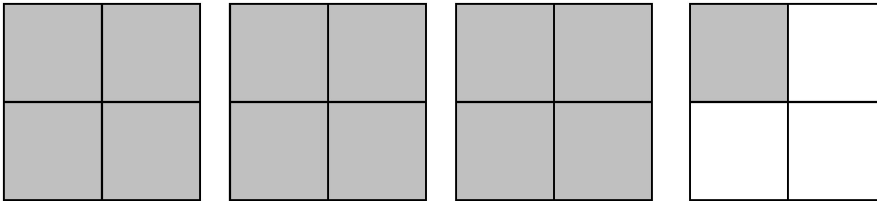
44)



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

Answer: B

45)

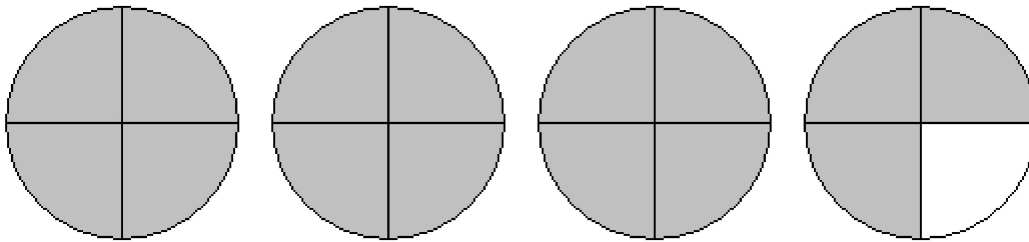


- A)  $4\frac{13}{16}; \frac{13}{4}$   
 B)  $4\frac{1}{4}; \frac{13}{4}$   
 C)  $3\frac{13}{16}; \frac{13}{4}$   
 D)  $3\frac{1}{4}; \frac{13}{4}$

Answer: D



46)



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

Answer: A

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

47)  $8\frac{5}{6}$

- A)  $\frac{53}{6}$
- B)  $\frac{53}{5}$
- C)  $\frac{48}{6}$
- D)  $\frac{48}{5}$

Answer: A

48)  $3\frac{7}{8}$

- A)  $\frac{24}{8}$
- B)  $\frac{24}{7}$
- C)  $\frac{31}{7}$
- D)  $\frac{31}{8}$

Answer: D

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

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

B)  $\frac{34}{9}$

C)  $\frac{34}{7}$

D)  $\frac{27}{7}$

Answer: B

50)  $3\frac{2}{9}$

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

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

C)  $\frac{29}{9}$

D)  $\frac{27}{9}$

Answer: C

51)  $12\frac{11}{12}$

A)  $\frac{155}{12}$

B) 23

C) 132

D) 11

Answer: A

52)  $255\frac{3}{6}$

A) 765

B)  $\frac{511}{2}$

C)  $\frac{255}{2}$

D) 258

Answer: B

Write the improper fraction as a mixed or whole number.

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

A)  $11\frac{2}{7}$

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

C)  $12\frac{2}{3}$

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

Answer: C

54)  $\frac{22}{5}$

A)  $4\frac{2}{5}$

B)  $3\frac{2}{5}$

C)  $4\frac{2}{7}$

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

Answer: A

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

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

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

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

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

Answer: D

56)  $\frac{140}{7}$

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

B) 20

C) 141

D) 139

Answer: B

57)  $\frac{34}{7}$

A)  $34\frac{7}{34}$

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

C)  $34\frac{34}{7}$

D)  $\frac{7}{34}$

Answer: B

58)  $\frac{205}{9}$

A)  $205\frac{9}{205}$

B)  $205\frac{205}{9}$

C)  $22\frac{7}{9}$

D)  $\frac{9}{205}$

Answer: C

59)  $\frac{193}{190}$

A)  $1\frac{3}{190}$

B)  $1\frac{3}{193}$

C)  $1\frac{190}{3}$

D)  $190\frac{3}{190}$

Answer: A

60)  $\frac{937}{124}$

A)  $7\frac{69}{124}$

B)  $7\frac{68}{124}$

C)  $6\frac{69}{124}$

D)  $8\frac{69}{124}$

Answer: A

**List all the factors of the number.**

61) 42

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

Answer: A

62) 28

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

Answer: B

63) 36

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

Answer: D

64) 45

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

Answer: D

65) 56

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

Answer: D

66) 63

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

Answer: D

67) 66

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

Answer: D

68) 70

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

Answer: B

69) 3

- A) no factors
- B) 1
- C) 1, 3
- D) 3

Answer: C

70) 35

- A) 5, 7
- B) 1, 5, 7, 35
- C) 1, 35
- D) 5, 7, 35

Answer: B

**Identify the number as prime or composite.**

71) 44

- A) Composite
- B) Prime

Answer: A

72) 67

- A) Composite
- B) Prime

Answer: B

73) 36

- A) Prime
- B) Composite

Answer: B

74) 167

- A) Prime
- B) Composite

Answer: A

75) 133

- A) Composite
- B) Prime

Answer: A

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

76) 66

A)  $2 \cdot 3 \cdot 11$

B)  $3^2 \cdot 2$

C)  $2^2 \cdot 11$

D)  $6 \cdot 11$

Answer: A

77) 355

A)  $5 \cdot 69$

B)  $5^2 \cdot 71$

C)  $5^2$

D)  $5 \cdot 71$

Answer: D

78) 32

A)  $2 \cdot 5$

B)  $2^5$

C)  $5^2$

D) Prime

Answer: B

79) 28

A)  $7^2$

B)  $4 \cdot 7$

C)  $2^2 \cdot 7$

D)  $4 \cdot 2$

Answer: C

80) 44

A)  $2^3 \cdot 11$

B)  $2^2 \cdot 11$

C)  $2 \cdot 11^2$

D)  $2 \cdot 11$

Answer: B

81) 280

A)  $2 \cdot 5 \cdot 7$

B)  $2^2 \cdot 5 \cdot 7$

C)  $2^3 \cdot 5 \cdot 7$

D)  $2 \cdot 5^3 \cdot 7$

Answer: C

82) 126

- A)  $2 \cdot 3 \cdot 7$
- B)  $2^2 \cdot 3^2 \cdot 7$
- C)  $14 \cdot 3^2$
- D)  $2 \cdot 3^2 \cdot 7$

Answer: D

83) 108

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

Answer: C

84) 252

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

Answer: A

85) 792

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

Answer: C

86) 1298

- A)  $11^2 \cdot 59$
- B)  $2 \cdot 11 \cdot 59$
- C)  $2^2 \cdot 59$
- D)  $22 \cdot 59$

Answer: B

87) 253

- A)  $11^2 \cdot 23$
- B)  $11 \cdot 23$
- C)  $12 \cdot 25$
- D)  $22 \cdot 13$

Answer: B



88) 5500

A)  $2^2 \cdot 5^3 \cdot 11$

B)  $2^4 \cdot 11$

C)  $5^4 \cdot 11$

D)  $2^3 \cdot 5^2 \cdot 11$

Answer: A

**Write the fraction in simplest form.**

89)  $\frac{45}{63}$

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

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

C)  $\frac{45}{63}$

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

Answer: D

90)  $\frac{70}{126}$

A)  $\frac{5}{14}$

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

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

D)  $\frac{70}{126}$

Answer: B

91)  $\frac{25}{38}$

A)  $\frac{1}{38}$

B)  $\frac{25}{38}$

C)  $\frac{19}{12}$

D)  $\frac{12}{19}$

Answer: B

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

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

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

C)  $\frac{10}{5}$

D)  $\frac{30}{50}$

Answer: B

93)  $\frac{120}{135}$

A)  $\frac{15}{9}$

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

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

D)  $\frac{120}{135}$

Answer: B

94)  $\frac{44}{76}$

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

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

C)  $\frac{11}{19}$

D)  $\frac{44}{76}$

Answer: C

95)  $\frac{195}{270}$

A)  $\frac{13}{18}$

B)  $\frac{15}{18}$

C)  $\frac{195}{270}$

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

Answer: A

96)  $\frac{468}{507}$

A)  $\frac{13}{12}$

B)  $\frac{468}{507}$

C)  $\frac{507}{468}$

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

Answer: D

97)  $\frac{396}{78}$

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

B)  $\frac{66}{13}$

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

D)  $\frac{66}{6}$

Answer: B

98)  $\frac{70}{10}$

A)  $\frac{35}{5}$

B)  $\frac{14}{2}$

C) 7

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

Answer: C

99)  $\frac{220}{99}$

A) 20

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

C)  $\frac{11}{9}$

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

Answer: D

100)  $\frac{1230}{2870}$

A)  $\frac{123}{287}$

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

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

D)  $\frac{164}{287}$

Answer: C

**Determine whether the pair of fractions is equivalent.**

101)  $\frac{4}{5}$  and  $\frac{52}{65}$

A) equivalent

B) not equivalent

Answer: A

102)  $\frac{2}{7}$  and  $\frac{18}{70}$

A) equivalent

B) not equivalent

Answer: B

103)  $\frac{2}{6}$  and  $\frac{13}{17}$

A) not equivalent

B) equivalent

Answer: A

104)  $\frac{1}{7}$  and  $\frac{14}{98}$

A) not equivalent

B) equivalent

Answer: B

105)  $\frac{20}{25}$  and  $\frac{16}{20}$

A) equivalent

B) not equivalent

Answer: A

106)  $\frac{6}{54}$  and  $\frac{7}{72}$

A) equivalent

B) not equivalent

Answer: B

**Solve. Write the fractions in simplest form.**

107) There are 5280 feet in a mile. What fraction of a mile is represented by 200 feet?

A)  $\frac{5}{132}$

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

C)  $\frac{200}{5280}$

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

Answer: A

108) There are 100 centimeters in 1 meter. What fraction of a meter is 10 centimeters?

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

B)  $\frac{10}{100}$

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

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

Answer: C

109) A company employs 180,000 employees worldwide. About 27,000 employees work in the United States. What fraction of the employees work in the United States?

A)  $\frac{27,000}{180,000}$

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

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

D)  $\frac{3}{200}$

Answer: B

110) A company employs 540,000 employees worldwide. About 108,000 employees work in the United States. What fraction of the employees do NOT work in the United States?

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

B)  $\frac{108,000}{540,000}$

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

D)  $\frac{432,000}{540,000}$

Answer: C

111) There are 11,900 employees at a company. If 8400 are males, what fraction of the employees are males?

- A)  $\frac{5}{12}$
- B)  $\frac{5}{17}$
- C)  $\frac{12}{17}$
- D)  $\frac{8400}{\text{males}}$

Answer: C

112) There are 7500 employees at a company. If 4500 are male, what fraction of the employees are female ?

- A)  $\frac{2}{5}$
- B)  $\frac{4500}{7500}$
- C)  $\frac{3}{5}$
- D)  $\frac{10}{15}$

Answer: A

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

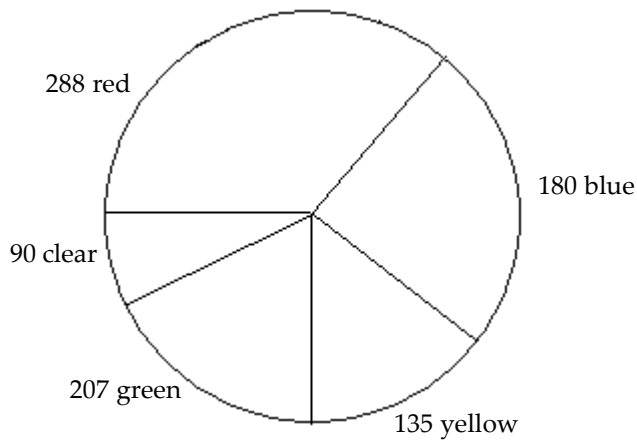
Distribution of Houses by Style	
Housing Style	Number of Homes
Two Story	38
One and One-Half Story	12
Raised Ranch	6
Split Level	25
Ranch	19

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

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

Answer: C

- 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 Jay has: 288 are red, 180 are blue, 135 are yellow, 207 are green, and 90 are clear. What fraction of the marbles are red? Write the fraction in simplest form.



- A)  $\frac{1}{5}$   
 B)  $\frac{288}{900}$   
 C)  $\frac{8}{25}$   
 D)  $\frac{8}{17}$

Answer: C

**Multiply. Write the answer in simplest form.**

115)  $\frac{4}{7} \cdot \frac{1}{5}$

- A)  $\frac{7}{20}$   
 B)  $\frac{5}{12}$   
 C)  $\frac{4}{35}$   
 D)  $\frac{35}{4}$

Answer: C

116)  $\frac{1}{7} \cdot \frac{17}{2}$

A) 2

B)  $\frac{2}{119}$

C)  $\frac{17}{14}$

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

Answer: C

117)  $\frac{6}{10} \cdot \frac{17}{3}$

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

B)  $\frac{9}{85}$

C)  $\frac{23}{13}$

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

Answer: D

118)  $\frac{1}{2} \cdot \frac{3}{8} \cdot \frac{1}{6}$

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

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

C)  $\frac{1}{32}$

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

Answer: C

119)  $\frac{6}{6} \cdot \frac{9}{11}$

A)  $\frac{17}{15}$

B)  $\frac{9}{11}$

C)  $\frac{11}{9}$

D)  $\frac{15}{17}$

Answer: B



$$120) \frac{10}{1} \cdot \frac{23}{14}$$

$$\text{A) } \frac{115}{7}$$

$$\text{B) } 1$$

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

$$\text{D) } \frac{140}{23}$$

Answer: A

$$121) 0 \cdot \frac{6}{19}$$

$$\text{A) } \frac{6}{19}$$

$$\text{B) } 0$$

C) undefined

$$\text{D) } \frac{19}{6}$$

Answer: B

$$122) \frac{5}{14} \cdot 0$$

$$\text{A) } \frac{14}{5}$$

B) undefined

$$\text{C) } \frac{5}{14}$$

$$\text{D) } 0$$

Answer: D

$$123) \frac{1}{5} \cdot \frac{13}{15} \cdot \frac{1}{10}$$

$$\text{A) } \frac{13}{750}$$

$$\text{B) } \frac{13}{75}$$

$$\text{C) } \frac{750}{13}$$

$$\text{D) } \frac{3}{100}$$

Answer: A

124)  $\frac{3}{14} \cdot 0 \cdot \frac{3}{8}$

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

B)  $\frac{9}{112}$

C) 0

D) undefined

Answer: C

125)  $\frac{3}{7} \cdot \frac{18}{19} \cdot \frac{21}{20} \cdot \frac{40}{6}$

A)  $\frac{41}{26}$

B)  $\frac{54}{133}$

C)  $\frac{19}{54}$

D)  $\frac{54}{19}$

Answer: D

126)  $2\frac{7}{8} \cdot 8$

A) 128

B) 16

C) 23

D)  $10\frac{7}{8}$

Answer: C

127)  $4 \cdot 6\frac{1}{14}$

A)  $24\frac{1}{14}$

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

C)  $24\frac{4}{7}$

D)  $24\frac{2}{7}$

Answer: D

128)  $1\frac{1}{8} \cdot \frac{4}{7}$

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

B)  $1\frac{4}{56}$

C)  $\frac{7}{14}$

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

Answer: D

129)  $4\frac{4}{9} \cdot 4\frac{1}{2}$

A) 20

B) 14

C) 19

D) 16

Answer: A

130)  $5 \cdot 4\frac{3}{10}$

A)  $20\frac{3}{10}$

B) 20

C)  $20\frac{1}{2}$

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

Answer: D

131)  $4\frac{1}{8} \cdot 5 \cdot \frac{3}{5}$

A)  $20\frac{5}{24}$

B)  $20\frac{3}{8}$

C)  $9\frac{3}{8}$

D)  $12\frac{3}{8}$

Answer: D

132)  $2 \cdot 5\frac{5}{16}$

A)  $10\frac{7}{8}$

B)  $7\frac{5}{8}$

C)  $10\frac{5}{8}$

D)  $10\frac{5}{16}$

Answer: C

133)  $1\frac{3}{7} \cdot \frac{3}{5}$

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

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

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

D)  $1\frac{9}{35}$

Answer: A

134)  $36 \cdot \frac{5}{6}$

A) 25

B) 30

C)  $\frac{180}{6}$

D)  $\frac{1301}{210}$

Answer: B

135)  $\frac{3}{5} \cdot 4$

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

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

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

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

Answer: D

136)  $\frac{1}{5} \cdot 1$

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

B) 5

C) 1

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

Answer: D

137)  $1 \cdot \frac{4}{9}$

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

B) 1

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

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

Answer: A

138)  $\frac{14}{19} \cdot 76 \cdot \frac{95}{38}$

A) 76

B) 140

C)  $\frac{1}{140}$

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

Answer: B

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

A)  $36\frac{1}{40}$

B)  $\frac{2023}{40}$

C)  $10\frac{1}{40}$

D)  $36\frac{1}{20}$

Answer: B

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

140)  $2\frac{1}{3} \cdot 4\frac{1}{4}$

A) Exact:  $\frac{25}{4}$

Estimate: 8

B) Exact:  $\frac{25}{4}$

Estimate: 15

C) Exact:  $\frac{119}{12}$

Estimate: 15

D) Exact:  $\frac{119}{12}$

Estimate: 8

Answer: D

141)  $4\frac{3}{4} \cdot 3\frac{4}{5}$

A) Exact:  $\frac{361}{20}$

Estimate: 12

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

Estimate: 12

C) Exact:  $\frac{68}{5}$

Estimate: 20

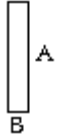
D) Exact:  $\frac{361}{20}$

Estimate: 20

Answer: D

**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).



$$A = \frac{4}{7} \text{ foot}$$

$$B = \frac{1}{2} \text{ foot}$$

A)  $\frac{4}{9}$  square foot

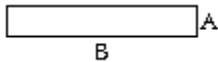
B)  $\frac{5}{9}$  square foot

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

D)  $\frac{4}{14}$  square foot

Answer: C

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



$$A = \frac{3}{13} \text{ yard}$$

$$B = 26 \text{ yards}$$

A)  $\frac{341}{13}$  square yards

B)  $\frac{29}{13}$  square yards

C) 6 square yards

D)  $\frac{78}{13}$  square yards

Answer: C

144) Raya is saving  $\frac{3}{17}$  of her monthly income of \$6477 for retirement. How much money is she setting aside each month for retirement?

A) \$127

B) \$381

C) \$36,703

D) \$1143

Answer: D

145) Maria exercises for  $2\frac{4}{7}$  hours every Saturday. She runs for  $\frac{1}{6}$  of the time that she exercises. How much time does she spend running every Saturday?

- A)  $\frac{1}{7}$  hour
- B)  $2\frac{4}{42}$  hours
- C)  $4\frac{3}{7}$  hours
- D)  $\frac{3}{7}$  hour

Answer: D

146) Byron rode his bicycle  $4\frac{5}{18}$  miles on each of 4 days. What is the total distance Byron rode?

- A)  $8\frac{1}{9}$  miles
- B)  $16\frac{5}{18}$  miles
- C)  $17\frac{3}{9}$  miles
- D)  $17\frac{1}{9}$  miles

Answer: D

147) Jennifer is building some shelves and requires 4 pieces of wood that are each  $2\frac{3}{4}$  feet long. What is the total length of wood that Jennifer needs?

- A) 11 feet
- B)  $6\frac{3}{4}$  feet
- C) 32 feet
- D) 8 feet

Answer: A

148) A rectangular flower bed in front of a building measures  $5\frac{2}{5}$  feet by  $3\frac{8}{9}$  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.

- A) 22 square feet
- B)  $15\frac{16}{45}$  square feet
- C) 25 square feet
- D) 21 square feet

Answer: D

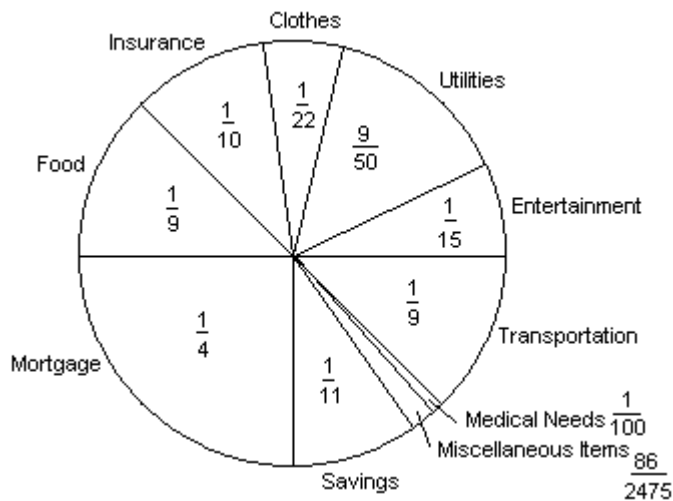


149) A recipe calls for  $\frac{1}{2}$  of a pound of sausage. How much sausage should be used if only  $\frac{1}{3}$  of the recipe is being made?

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

Answer: D

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



If the Suarez's income last month was \$2700, how much money did they spend on their clothes? Round to the nearest cent, if necessary.

- A) \$27.00
- B) \$122.73
- C) \$270.00
- D) \$486.00

Answer: B

151) Find  $\frac{1}{20}$  of 80.

- A) 1600
- B)  $\frac{1}{1600}$
- C) 4
- D) 20

Answer: C

152) Find  $\frac{1}{9}$  of 54.

A)  $\frac{1}{486}$

B) 486

C) 54

D) 6

Answer: D

**Find the reciprocal of the number.**

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

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

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

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

D) 9

Answer: A

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

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

B) 0

C) 6

D) 1

Answer: C

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

A) 0

B) 16

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

D) 1

Answer: B

156) 6

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

B) 1

C) 6

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

Answer: D

157) 14

A) 1

B)  $\frac{14}{1}$

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

D) 14

Answer: C

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

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

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

C) 6

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

Answer: A

**Divide. Write the answer in simplest form.**

159)  $\frac{7}{7} \div \frac{3}{6}$

A)  $\frac{13}{21}$

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

C)  $\frac{10}{13}$

D) 2

Answer: D

160)  $\frac{7}{11} \div \frac{4}{7}$

A)  $19\frac{1}{4}$

B)  $\frac{11}{18}$

C)  $\frac{4}{77}$

D)  $\frac{49}{44}$

Answer: D

$$161) \frac{6}{17} \div \frac{7}{10}$$

$$\text{A) } \frac{60}{117}$$

$$\text{B) } \frac{60}{119}$$

$$\text{C) } \frac{59}{119}$$

$$\text{D) } \frac{58}{119}$$

Answer: B

$$162) \frac{3}{13} \div \frac{7}{13}$$

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

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

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

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

Answer: B

$$163) \frac{2}{19} \div \frac{5}{16}$$

$$\text{A) } \frac{30}{95}$$

$$\text{B) } \frac{31}{95}$$

$$\text{C) } \frac{32}{95}$$

$$\text{D) } \frac{32}{93}$$

Answer: C

$$164) \frac{5}{11} \div \frac{7}{13}$$

$$\text{A) } \frac{64}{77}$$

$$\text{B) } \frac{65}{77}$$

$$\text{C) } \frac{63}{77}$$

$$\text{D) } \frac{65}{75}$$

Answer: B

165)  $\frac{2}{3} \div \frac{19}{5}$

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

B)  $\frac{38}{15}$

C)  $\frac{7}{22}$

D)  $\frac{10}{57}$

Answer: D

166)  $\frac{13}{9} \div \frac{1}{9}$

A) 14

B)  $\frac{23}{2}$

C) 13

D) 12

Answer: C

**Solve.**

167) How many  $\frac{6}{13}$  pound boxes of cereal can be made from 10,140 pound of cereal?

A) 1690 boxes

B) 4680 boxes

C) 21,970 boxes

D) 780 boxes

Answer: C

168) On a recent trip, Asha drove 212 miles on  $10\frac{1}{2}$  gallons of gasoline. How many miles per gallon did she average?

A)  $20\frac{4}{21}$  miles per gallon

B)  $1060\frac{1}{2}$  miles per gallon

C) 2226 miles per gallon

D)  $\frac{21}{424}$  miles per gallon

Answer: A

169) Mark is filling decorative oil lamps for a reception. Each lamp can hold  $\frac{3}{7}$  cup of oil. Mark has  $2\frac{4}{7}$  cups of oil available. How many oil lamps can Mark fill completely?

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

Answer: B

170) Ted walks around a lake on a path that is  $3\frac{3}{5}$  miles long. It takes him  $1\frac{1}{3}$  hours to complete his walk. What is his average speed (in miles per hour)?

- A)  $3\frac{7}{10}$  miles per hour
- B)  $2\frac{7}{9}$  miles per hour
- C)  $2\frac{7}{10}$  miles per hour
- D)  $2\frac{8}{10}$  miles per hour

Answer: C

171) Toni needs to cut a  $6\frac{2}{9}$  - foot board into 5 equal pieces. How long should each piece be?

- A)  $31\frac{1}{9}$  ft
- B)  $6\frac{2}{45}$  ft
- C)  $1\frac{11}{45}$  ft
- D)  $1\frac{19}{45}$  ft

Answer: C

**Divide. Write the answer in simplest form.**

172)  $0 \div \frac{3}{4}$

- A)  $\frac{3}{4}$
- B)  $1\frac{1}{3}$
- C) 0
- D) Undefined

Answer: C

173)  $\frac{3}{4} \div 0$

A) Undefined

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

C) 0

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

Answer: A

174)  $\frac{3}{10} \div \frac{3}{10}$

A)  $\frac{9}{100}$

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

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

D) 1

Answer: D

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

175)  $\frac{91}{36} \cdot \frac{216}{169} \div \frac{7}{13}$

A) 6

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

C)  $\frac{8281}{7776}$

D)  $\frac{294}{169}$

Answer: A

**Divide. Write the answer in simplest form.**

176)  $4\frac{7}{9} \div 2\frac{8}{9}$

A)  $2\frac{17}{26}$

B)  $1\frac{18}{26}$

C)  $1\frac{17}{26}$

D)  $1\frac{17}{25}$

Answer: C

177)  $5\frac{3}{4} \div 2\frac{3}{8}$

A)  $3\frac{8}{19}$

B)  $2\frac{8}{18}$

C)  $2\frac{9}{19}$

D)  $2\frac{8}{19}$

Answer: D

178)  $42 \div 4\frac{2}{3}$

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

B) 9

C) 8

D) 10

Answer: B

179)  $4\frac{4}{7} \div 8$

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

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

C)  $\frac{4}{6}$

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

Answer: A

180)  $4\frac{5}{6} \div 1\frac{7}{9}$

A)  $3\frac{23}{32}$

B)  $2\frac{23}{31}$

C)  $2\frac{24}{32}$

D)  $2\frac{23}{32}$

Answer: D



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

A) 9

B) 7

C) 8

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

Answer: C

182)  $\frac{3}{3} \div 9$

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

B) 3

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

D) 9

Answer: C

183)  $18 \div \frac{9}{5}$

A) 10

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

C) 9

D) 11

Answer: A

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

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

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

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

D) 3

Answer: D

185)  $0 \div 14\frac{3}{8}$

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

B) 0

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

D) undefined

Answer: B

186)  $\frac{8}{15} \div 1$

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

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

C)  $\frac{9}{16}$

D) 1

Answer: A

**Solve.**

187) How many  $\frac{7}{12}$  pound boxes of cereal can be made from 13,440 pound of cereal?

A) 7840 boxes

B) 1920 boxes

C) 1120 boxes

D) 23,040 boxes

Answer: D

188) On a recent trip, Asha drove 244 miles on  $14\frac{1}{7}$  gallons of gasoline. How many miles per gallon did she average?

A)  $488\frac{1}{7}$  miles per gallon

B)  $17\frac{25}{99}$  miles per gallon

C)  $3450\frac{6}{7}$  miles per gallon

D)  $\frac{99}{1708}$  miles per gallon

Answer: B

189) Mark is filling decorative oil lamps for a reception. Each lamp can hold  $\frac{2}{7}$  cup of oil. Mark has  $5\frac{3}{7}$  cups of oil available. How many oil lamps can Mark fill completely?

A) 20 oil lamps

B)  $17\frac{1}{2}$  oil lamps

C) 19 oil lamps

D) 18 oil lamps

Answer: C

190) Ted walks around a lake on a path that is  $4\frac{6}{7}$  miles long. It takes him  $1\frac{2}{7}$  hours to complete his walk. What is his average speed (in miles per hour)?

- A)  $3\frac{7}{9}$  miles per hour
- B)  $3\frac{7}{8}$  miles per hour
- C)  $3\frac{8}{9}$  miles per hour
- D)  $4\frac{7}{9}$  miles per hour

Answer: A

191) Toni needs to cut a  $5\frac{1}{9}$  - foot board into 4 equal pieces. How long should each piece be?

- A)  $5\frac{1}{36}$  ft
- B)  $20\frac{4}{9}$  ft
- C)  $1\frac{5}{18}$  ft
- D)  $1\frac{13}{36}$  ft

Answer: C

192) The area of the rectangle is 7 square feet. If its length is  $5\frac{1}{4}$  feet, find its width.



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

- A) 21 ft
- B)  $36\frac{3}{4}$  ft
- C)  $5\frac{1}{4}$  feet
- D)  $1\frac{1}{3}$  ft

Answer: D

193) The perimeter of the square is  $15\frac{1}{7}$  meters. Find the length of each side.



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

B)  $30\frac{2}{7}$  m

C)  $3\frac{11}{14}$  m

D)  $60\frac{4}{7}$  m

Answer: C

**Solve. Write the answer in simplest form.**

194) Approximately  $\frac{11}{14}$  of a worldwide corporation's employees live and work in the United States. If 25,102 employees live and work in the United States, how many employees does the corporation have worldwide?

A) 2282 employees  
B) 19,723 employees  
C) 31,948 employees  
D) 1793 employees

Answer: C

**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.

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

Answer: A

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

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

Answer: D

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

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

Answer: B

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

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

Answer: D

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

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

Answer: C

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

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

Answer: C

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

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

Answer: B

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

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

Answer: D

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

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

Answer: C

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

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

Answer: B

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

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

Answer: B

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

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

Answer: B

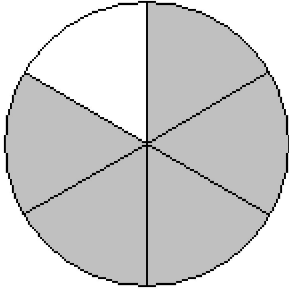
207) In  $\frac{a}{b} = \frac{c}{d}$ ,  $a \cdot d$  and  $b \cdot c$  are called \_\_\_\_\_.

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

Answer: A

Write a fraction to represent the shaded area.

208)



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

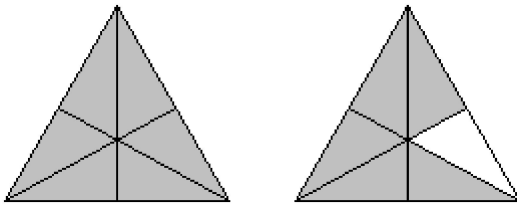
B)  $\frac{1}{5}$

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

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

Answer: A

209)



A)  $2\frac{11}{12}$  or  $\frac{11}{6}$

B)  $1\frac{5}{6}$  or  $\frac{11}{6}$

C)  $1\frac{11}{12}$  or  $\frac{11}{6}$

D)  $2\frac{5}{6}$  or  $\frac{11}{6}$

Answer: B

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

210)  $7\frac{2}{3}$

A)  $\frac{23}{3}$

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

C)  $\frac{21}{2}$

D)  $\frac{23}{2}$

Answer: A

211)  $25\frac{11}{17}$

A)  $\frac{436}{17}$

B)  $\frac{275}{17}$

C) 36

D) 275

Answer: A

**Write the improper fraction as a mixed or whole number.**

212)  $\frac{49}{5}$

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

B)  $8\frac{4}{5}$

C)  $10\frac{4}{5}$

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

Answer: D

213)  $\frac{154}{7}$

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

B) 153

C) 155

D) 22

Answer: D



**Write the fraction in simplest form.**

214)  $\frac{50}{60}$

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

B)  $\frac{50}{60}$

C)  $\frac{5}{10}$

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

Answer: A

215)  $\frac{255}{285}$

A)  $\frac{17}{19}$

B)  $\frac{17}{15}$

C)  $\frac{255}{285}$

D)  $\frac{15}{19}$

Answer: A

**Determine whether the pair of fractions is equivalent.**

216)  $\frac{1}{2}$  and  $\frac{13}{26}$

A) equivalent

B) not equivalent

Answer: A

217)  $\frac{5}{6}$  and  $\frac{25}{120}$

A) not equivalent

B) equivalent

Answer: A

**Find the prime factorization of the number.**

218) 198

A)  $2 \cdot 3 \cdot 11$

B)  $2^2 \cdot 3^2 \cdot 11$

C)  $2 \cdot 3^2 \cdot 11$

D)  $22 \cdot 3^2$

Answer: C

219) 2200

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

Answer: C

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

220)  $\frac{1}{4} \div \frac{6}{7}$

- A)  $\frac{1}{3}$
- B)  $\frac{7}{11}$
- C)  $\frac{3}{14}$
- D)  $\frac{7}{24}$

Answer: D

221)  $\frac{10}{6} \cdot \frac{12}{6}$

- A)  $\frac{8}{9}$
- B)  $\frac{10}{3}$
- C)  $\frac{11}{6}$
- D)  $\frac{5}{6}$

Answer: B

222)  $\frac{3}{8} \cdot 4$

- A)  $\frac{7}{8}$
- B)  $\frac{35}{8}$
- C)  $\frac{3}{2}$
- D)  $\frac{3}{32}$

Answer: C

223)  $\frac{1}{8} \cdot \frac{5}{7}$

A)  $\frac{40}{7}$

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

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

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

Answer: B

224)  $50 \div \frac{5}{4}$

A) 39

B)  $\frac{77}{2}$

C) 40

D) 41

Answer: C

225)  $2\frac{4}{5} \div 7$

A)  $\frac{2}{4}$

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

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

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

Answer: B

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

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

B)  $\frac{5}{19}$

C)  $\frac{5}{32}$

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

Answer: C

227)  $4\frac{2}{5} \div \frac{1}{5}$

A)  $20\frac{1}{2}$

B) 21

C) 23

D) 22

Answer: D

228)  $\frac{18}{5} \div \frac{3}{5}$

A) 6

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

C) 5

D) 7

Answer: A

229)  $3\frac{1}{5} \cdot 2\frac{1}{2}$

A) 4

B) 8

C) 6

D) 7

Answer: B

230)  $24 \div 4\frac{4}{5}$

A) 6

B) 5

C) 4

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

Answer: B

231)  $\frac{11}{6} \cdot \frac{17}{6} \cdot 2$

A)  $\frac{187}{36}$

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

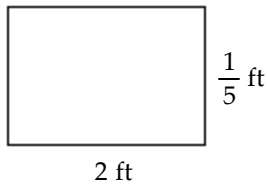
C)  $\frac{187}{18}$

D)  $\frac{187}{72}$

Answer: C

**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).



A)  $\frac{11}{16}$  square foot

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

C)  $\frac{10}{55}$  square foot

D)  $\frac{2}{11}$  square foot

Answer: D

233) On a recent trip, Asha drove 258 miles on  $16\frac{1}{2}$  gallons of gasoline. How many miles per gallon did she average?

A)  $15\frac{7}{11}$  miles per gallon

B)  $\frac{11}{172}$  miles per gallon

C)  $2064\frac{1}{2}$  miles per gallon

D) 4257 miles per gallon

Answer: A

234) A rectangular flower bed in front of a building measures  $2\frac{2}{9}$  feet by  $5\frac{2}{5}$  feet. What is the total area of the flower bed?

A) 14 square feet

B)  $10\frac{4}{45}$  square feet

C) 13 square feet

D) 12 square feet

Answer: D

235) Lea is saving  $\frac{3}{11}$  of her monthly income of \$4158 for retirement. How much money is she setting aside each month for retirement?

A) \$126

B) \$15,246

C) \$378

D) \$1134

Answer: D