

Exam

Name _____

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

Write the improper fraction as a mixed or whole number.

- 1) $\frac{29}{11}$ 1) _____
- A) $29\frac{11}{29}$ B) $\frac{11}{29}$ C) $2\frac{7}{11}$ D) $29\frac{29}{11}$

Multiply. Write the answer in simplest form.

- 2) $40 \cdot \frac{5}{8}$ 2) _____
- A) 20 B) $\frac{200}{8}$ C) $\frac{107}{16}$ D) 25

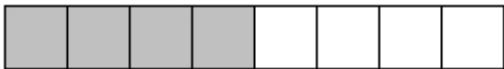
Solve. Write the answer in simplest form.

- 3) Jennifer is building some shelves and requires 18 pieces of wood that are each $1\frac{4}{9}$ feet long. What is 3) _____
- the total length of wood that Jennifer needs?
- A) $19\frac{4}{9}$ feet B) 26 feet C) 18 feet D) 162 feet

Solve. Write the fractions in simplest form.

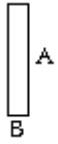
- 4) A company employs 378,000 employees worldwide. About 27,000 employees work in the United 4) _____
- States. What fraction of the employees do NOT work in the United States?
- A) $\frac{351,000}{378,000}$ B) $\frac{13}{14}$ C) $\frac{27,000}{378,000}$ D) $\frac{1}{14}$

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

- 5) $\frac{4}{9}$ of a diagram 5) _____
- A)
- 
- B)
- 
- C)
- 
- D)
- 

Solve. Write the answer in simplest form.

- 6) Find the area of the rectangle. Write the answer in simplest form. Recall that the area = (length) · (width). 6) _____



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

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

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

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

- 7) 175 7) _____
 A) $5^2 \cdot 7$ B) $25 \cdot 5$ C) $25 \cdot 7$ D) 7^2

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

- 8) $\frac{6}{11}$ of a diagram 8) _____

A)



B)



C)



D)



List all the factors of the number.

- 9) 42 9) _____
 A) 1, 2, 3, 6, 7, 14, 28, 42 B) 1, 2, 3, 6, 7, 14, 21, 42
 C) 1, 7, 6, 42 D) 7, 6, 14, 42

Divide. Write the answer in simplest form.

- 10) $0 \div \frac{1}{5}$ 10) _____
 A) $\frac{1}{5}$ B) 0 C) 5 D) Undefined

Solve. Write the answer in simplest form.

11) 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? 11) _____

A) 61 square feet

B) 64 square feet

C) $55\frac{5}{40}$ square feet

D) 63 square feet

List all the factors of the number.

12) 19

A) 1

B) 1, 19

C) 19

D) no factors

12) _____

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

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

13) _____

A) prime number

B) composite number

C) numerator

D) mixed number

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

14) $20 \div \frac{4}{3}$

14) _____

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

B) 15

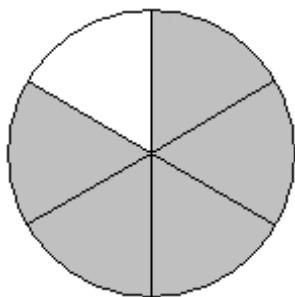
C) 16

D) 14

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

15)

15) _____



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

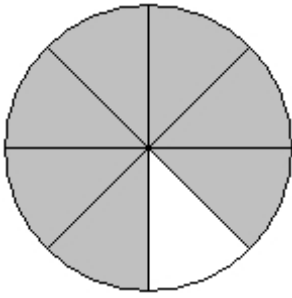
B) $\frac{5}{1}$

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

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

16)

16) _____



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

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

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

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

Divide. Write the answer in simplest form.

17) $5\frac{2}{3} \div 1\frac{1}{8}$

17) _____

A) $5\frac{1}{27}$

B) $5\frac{2}{27}$

C) $6\frac{1}{27}$

D) $5\frac{1}{26}$

Write the mixed number as an improper fraction.

18) $7\frac{3}{5}$

18) _____

A) $\frac{35}{3}$

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

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

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

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

19) 365

19) _____

A) $5 \cdot 71$

B) $5^2 \cdot 73$

C) $5 \cdot 73$

D) 5^2

Divide. Write the answer in simplest form.

20) $\frac{2}{6} \div 0$

20) _____

A) Undefined

B) 0

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

D) 3

Write the improper fraction as a mixed or whole number.

21) $\frac{126}{7}$

21) _____

A) 127

B) 125

C) 18

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

Multiply. Write the answer in simplest form.

22) $\frac{3}{5} \cdot 0$

22) _____

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

B) undefined

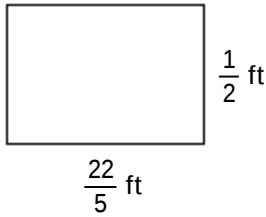
C) $\frac{5}{3}$

D) 0

Solve. Write the answer in simplest form.

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

23) _____



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

Write the fraction in simplest form.

24) $\frac{240}{272}$

24) _____

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

25) $\frac{60}{68}$

25) _____

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

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		

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

26) _____

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

Write the improper fraction as a mixed or whole number.

27) $\frac{927}{118}$

27) _____

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

Determine whether the pair of fractions is equivalent.

28) $\frac{6}{8}$ and $\frac{22}{24}$

28) _____

- A) equivalent B) not equivalent

Write the fraction in simplest form.

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

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

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

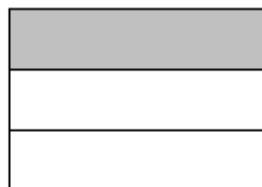
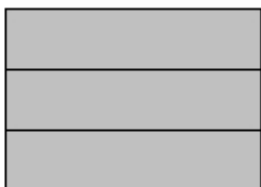
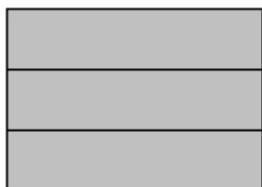
C) $\frac{30}{50}$

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

29) _____

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

30)



A) $3\frac{1}{3}; \frac{7}{3}$

B) $2\frac{7}{9}; \frac{7}{3}$

C) $2\frac{1}{3}; \frac{7}{3}$

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

30) _____

Divide. Write the answer in simplest form.

31) $0 \div 9\frac{4}{9}$

A) 0

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

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

D) undefined

31) _____

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

32) $2\frac{4}{9} \div 11$

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

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

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

D) $\frac{3}{9}$

32) _____

Write the improper fraction as a mixed or whole number.

33) $\frac{182}{179}$

A) $1\frac{3}{182}$

B) $1\frac{3}{179}$

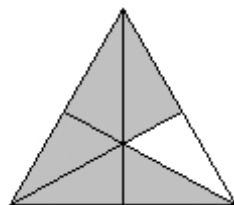
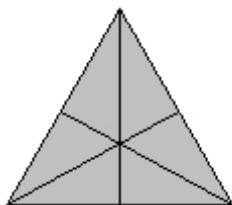
C) $179\frac{3}{179}$

D) $1\frac{179}{3}$

33) _____

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

34)



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

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

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

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

34) _____

Write the fraction in simplest form.

35) $\frac{175}{200}$

35) _____

A) $\frac{175}{200}$

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

C) $\frac{25}{8}$

D) $\frac{7}{25}$

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

36) 221

36) _____

A) $13^2 \cdot 17$

B) $13 \cdot 17$

C) $14 \cdot 19$

D) $16 \cdot 15$

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

mixed number
composite number
prime number
reciprocals

equivalent
improper fraction
proper fraction
cross products

0
simplest form
numerator

undefined
prime factorization
denominator

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

37) _____

A) denominator, numerator

B) composite number, prime number

C) numerator, prime number

D) numerator, denominator

Divide. Write the answer in simplest form.

38) $\frac{4}{6} \div 7$

38) _____

A) $\frac{5}{42}$

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

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

D) $4\frac{2}{3}$

Write the fraction.

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

39) _____

A) $\frac{100}{39}$

B) $\frac{39}{61}$

C) $\frac{39}{100}$

D) $\frac{61}{39}$

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

40)

40) _____



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

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

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

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

Write the mixed number as an improper fraction.

41) $5\frac{2}{5}$

41) _____

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

B) $\frac{25}{5}$

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

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

Simplify.

42) $\frac{0}{28}$

42) _____

A) undefined

B) $\frac{1}{28}$

C) 28

D) 0

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

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

43) _____

A)



B)



C)



D)



Write the fraction.

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

44) _____

A) $\frac{237}{51}$

B) $\frac{51}{237}$

C) $\frac{186}{51}$

D) $\frac{51}{186}$

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

45) 252

45) _____

A) $2^2 \cdot 3^2 \cdot 7$

B) $2^3 \cdot 3^2 \cdot 7$

C) $2^4 \cdot 7$

D) $3^4 \cdot 7$

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

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

46) _____

A)



B)



C)



D)



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

47) $\frac{3}{4} \cdot 6$

47) _____

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

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

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

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

List all the factors of the number.

48) 28

48) _____

A) 1, 2, 4, 7, 14, 28

B) 1, 2, 4, 7, 8, 14, 28

C) 1, 2, 7, 14, 28

D) 2, 7, 14, 28

Write the fraction in simplest form.

49) $\frac{22}{77}$

49) _____

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

B) $\frac{11}{7}$

C) $\frac{22}{77}$

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

Identify the number as prime or composite.

50) 119

50) _____

A) Prime

B) Composite

Write the fraction.

51) 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?

51) _____

A) $\frac{18}{8}$

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

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

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

Solve.

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

52) _____

A) 3632 boxes

B) 2951 boxes

C) 38,363 boxes

D) 908 boxes

Multiply. Write the answer in simplest form.

53) $1 \cdot \frac{8}{13}$

53) _____

A) 1

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

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

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

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

54) 165

54) _____

A) $3 \cdot 5 \cdot 11$

B) $5^2 \cdot 3$

C) $15 \cdot 11$

D) $3^2 \cdot 11$

55) 72

55) _____

A) $2 \cdot 3^2$

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

C) $2^3 \cdot 3$

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

Divide. Write the answer in simplest form.

56) $44 \div 2\frac{1}{5}$

56) _____

A) 20

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

C) 21

D) 19

Solve. Write the answer in simplest form.

57) 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?

57) _____

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

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

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

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

Find the reciprocal of the number.

58) 5

58) _____

A) 1

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

C) 5

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

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

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

59) _____

A) mixed number

B) numerator

C) denominator

D) composite number

List all the factors of the number.

60) 63

60) _____

A) 1, 3, 5, 7, 9, 11, 21, 63

B) 3, 5, 7, 9, 11, 21, 63

C) 1, 3, 7, 9, 21, 63

D) 1, 2, 3, 7, 9, 21, 36, 63

Divide. Write the answer in simplest form.

61) $\frac{3}{14} \div \frac{7}{20}$

61) _____

A) $\frac{29}{49}$

B) $\frac{28}{49}$

C) $\frac{30}{47}$

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

Multiply. Write the answer in simplest form.

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

62) _____

A) $\frac{59}{43}$

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

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

D) $\frac{49}{99}$

Solve. Write the fractions in simplest form.

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

63) _____

A) $\frac{1}{15}$

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

C) $\frac{1}{176}$

D) $\frac{330}{5280}$

Divide. Write the answer in simplest form.

64) $32 \div \frac{8}{5}$

64) _____

A) 19

B) 21

C) $\frac{37}{2}$

D) 20

Multiply. Write the answer in simplest form.

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

65) _____

A) $\frac{23}{304}$

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

C) $\frac{16}{95}$

D) $\frac{95}{16}$

66) $5\frac{1}{5} \cdot 5 \cdot \frac{2}{9}$

66) _____

A) $10\frac{7}{9}$

B) $25\frac{9}{10}$

C) $5\frac{7}{9}$

D) $25\frac{7}{9}$

List all the factors of the number.

67) 45

67) _____

A) 1, 3, 5, 9, 15, 45

B) 1, 3, 5, 9, 15, 30, 45

C) 1, 3, 5, 15, 45

D) 1, 2, 3, 5, 9, 15, 30, 45

Write the fraction in simplest form.

68) $\frac{189}{45}$

68) _____

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

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

C) $\frac{21}{5}$

D) $\frac{21}{9}$

Identify the numerator and the denominator of the fraction.

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

69) _____

A) Numerator 9

B) Numerator 2

C) Numerator 7

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

Denominator 1

Denominator 7

Denominator 2

Denominator 7

Find the reciprocal of the number.

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

70) _____

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

B) $\frac{1}{15}$

C) 7

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

List all the factors of the number.

71) 70

- A) 1, 3, 5, 7, 9, 15, 20, 35, 70
C) 1, 2, 5, 7, 35, 70

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

71) _____

Multiply. Write the answer in simplest form.

72) $1\frac{2}{7} \cdot \frac{4}{9}$

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

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

C) $1\frac{8}{63}$

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

72) _____

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

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

- A) simplest form
C) reciprocals

- B) prime factorization
D) 0

73) _____

Identify the number as prime or composite.

74) 73

A) Prime

B) Composite

74) _____

Solve. Write the fractions in simplest form.

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

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

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

C) $\frac{2100}{7000}$

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

75) _____

Determine whether the pair of fractions is equivalent.

76) $\frac{3}{9}$ and $\frac{15}{45}$

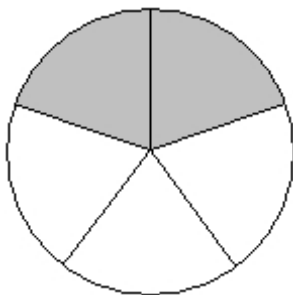
A) equivalent

B) not equivalent

76) _____

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

77)



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

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

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

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

77) _____

Find the reciprocal of the number.

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

78) _____

A) 9

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

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

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

Multiply. Write the answer in simplest form.

79) $7\frac{1}{4} \cdot 4$

79) _____

A) 112

B) 29

C) $11\frac{1}{4}$

D) 28

Solve. Write the answer in simplest form.

80) 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?

80) _____

A) 543 employees

B) 1629 employees

C) 1991 employees

D) 21,901 employees

Solve. Write the answer in simplest form.

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

81) _____

A) 60

B) $\frac{1}{240}$

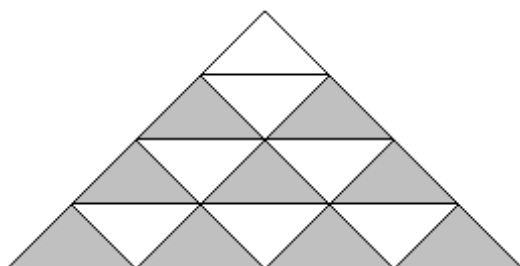
C) 240

D) 120

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

82)

82) _____



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

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

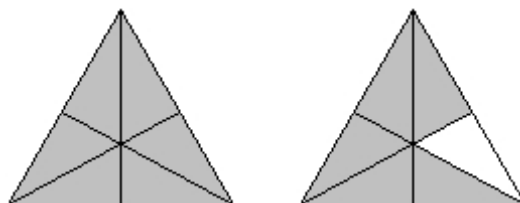
C) $\frac{9}{16}$

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

Write a fraction to represent the shaded area.

83)

83) _____



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

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

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

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

Determine whether the pair of fractions is equivalent.

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

84) _____

A) equivalent

B) not equivalent

Divide. Write the answer in simplest form.

85) $5\frac{3}{5} \div 2\frac{1}{5}$

85) _____

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

B) $2\frac{6}{10}$

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

D) $3\frac{6}{11}$

Simplify.

86) $\frac{17}{17}$

86) _____

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

B) 17

C) 0

D) 1

Write the fraction in simplest form.

87) $\frac{403}{465}$

87) _____

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

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

C) $\frac{403}{465}$

D) $\frac{465}{403}$

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

mixed number
composite number
prime number
reciprocals

equivalent
improper fraction
proper fraction
cross products

0
simplest form
numerator

undefined
prime factorization
denominator

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

88) _____

A) undefined

C) 0

B) proper fraction

D) prime factorization

Multiply. Write the answer in simplest form.

89) $2 \cdot 4\frac{1}{10}$

89) _____

A) $6\frac{1}{5}$

B) $8\frac{3}{5}$

C) $8\frac{1}{10}$

D) $8\frac{1}{5}$

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

90) $3\frac{1}{5} \cdot 4\frac{1}{4}$

90) _____

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

Estimate: 12

B) Exact: $\frac{21}{2}$

Estimate: 20

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

Estimate: 12

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

Estimate: 20

Find the reciprocal of the number.

91) 18

A) $\frac{18}{1}$

B) 18

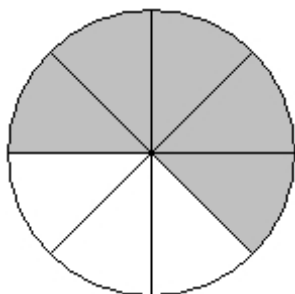
C) 1

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

91) _____

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

92)



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

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

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

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

92) _____

Write the fraction.

93) 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?

A) $\frac{100}{19}$

B) $\frac{57}{100}$

C) $\frac{19}{81}$

D) $\frac{19}{100}$

93) _____

Multiply. Write the answer in simplest form.

94) $\frac{5}{7} \cdot \frac{4}{9}$

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

B) $\frac{28}{45}$

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

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

94) _____

List all the factors of the number.

95) 66

A) 1, 2, 3, 6, 11, 22, 33, 66

B) 1, 2, 3, 4, 11, 16, 22, 33, 66

C) 1, 3, 11, 22, 33, 66

D) 1, 2, 3, 9, 11, 22, 33, 66

95) _____

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

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

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

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

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

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

96) _____

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

97)



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

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

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

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

97) _____

Write the mixed number as an improper fraction.

98) $19\frac{13}{19}$

98) _____

A) 32

B) $\frac{374}{19}$

C) 13

D) 247

Divide. Write the answer in simplest form.

99) $5\frac{3}{5} \div \frac{1}{5}$

99) _____

A) 28

B) 29

C) $26\frac{1}{2}$

D) 27

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

100) 63

100) _____

A) $3^3 \cdot 7$

B) $3 \cdot 7^2$

C) $3 \cdot 7$

D) $3^2 \cdot 7$

Write the improper fraction as a mixed or whole number.

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

101) _____

A) $6\frac{4}{5}$

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

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

D) $5\frac{4}{7}$

Write the mixed number as an improper fraction.

102) $20\frac{10}{21}$

102) _____

A) $\frac{430}{21}$

B) 200

C) 30

D) $\frac{200}{21}$

Divide. Write the answer in simplest form.

103) $\frac{4}{13} \div \frac{9}{11}$

103) _____

A) $\frac{43}{117}$

B) $\frac{44}{117}$

C) $\frac{42}{117}$

D) $\frac{44}{115}$

Multiply. Write the answer in simplest form.

104) $0 \cdot \frac{4}{9}$

104) _____

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

B) 0

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

D) undefined

Solve.

105) 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?

105) _____

A) 11 oil lamps

B) $9\frac{1}{2}$ oil lamps

C) 10 oil lamps

D) 12 oil lamps

Simplify.

106) $\frac{50}{0}$

106) _____

A) 0

B) undefined

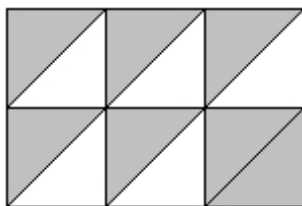
C) $\frac{1}{50}$

D) 50

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

107)

107) _____



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

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

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

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

Multiply. Write the answer in simplest form.

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

108) _____

A) $\frac{25}{28}$

B) 56

C) 50

D) $\frac{1}{50}$

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

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

109) _____

A) $\frac{1}{50}$

B) $\frac{3}{100}$

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

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

Solve. Write the answer in simplest form.

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

110) _____

A) $11\frac{1}{5}$ miles

B) $22\frac{3}{5}$ miles

C) $22\frac{1}{5}$ miles

D) $18\frac{7}{15}$ miles

Solve.

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

111) _____

A) 12,288 boxes

B) 1536 boxes

C) 576 boxes

D) 1728 boxes

List all the factors of the number.

112) 6

112) _____

A) 1, 2, 3, 6

B) 2, 3, 6

C) 1, 6

D) 2, 3

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

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

113) _____

A) $\frac{245}{121}$

B) 5

C) $\frac{5929}{3125}$

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

Find the reciprocal of the number.

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

114) _____

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

B) 1

C) 0

D) 4

Divide. Write the answer in simplest form.

115) $5\frac{5}{9} \div 10$

115) _____

A) $\frac{6}{9}$

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

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

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

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

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

116) _____

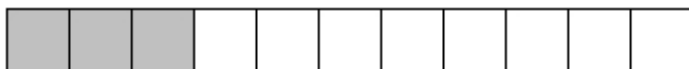
A)



B)



C)



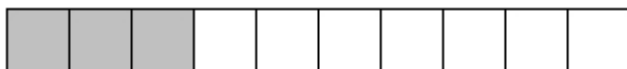
D)



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

117) _____

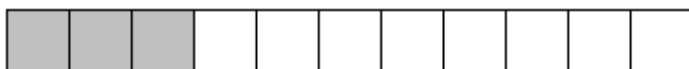
A)



B)



C)



D)



Write the fraction in simplest form.

118) $\frac{195}{247}$

118) _____

A) $\frac{13}{19}$

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

C) $\frac{195}{247}$

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

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

119)

119) _____



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

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

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

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

Write the fraction in simplest form.

120) $\frac{143}{91}$

120) _____

A) $\frac{11}{13}$

B) $\frac{13}{7}$

C) 11

D) $\frac{11}{7}$

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

121) 60

121) _____

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

B) $2^3 \cdot 3 \cdot 5$

C) $2 \cdot 3 \cdot 5$

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

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

122) $1\frac{4}{5} \div \frac{1}{5}$

122) _____

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

B) 10

C) 8

D) 9

Write the improper fraction as a mixed or whole number.

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

123) _____

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

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

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

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

Find the reciprocal of the number.

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

124) _____

A) 0

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

C) 1

D) 14

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

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

125) _____

A)



B)



C)



D)



Write the fraction in simplest form.

126) $\frac{330}{55}$

126) _____

A) $\frac{30}{5}$

B) $\frac{66}{11}$

C) 6

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

Solve. Write the fractions in simplest form.

127) 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?

127) _____

A) $\frac{13}{400}$

B) $\frac{13}{4}$

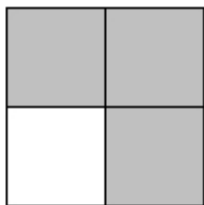
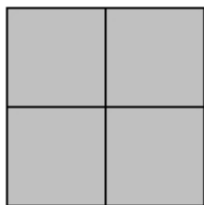
C) $\frac{46,800}{144,000}$

D) $\frac{13}{40}$

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

128)

128) _____



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

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

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

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

Solve. Write the fractions in simplest form.

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

129) _____

A) $\frac{2600}{\text{males}}$

B) $\frac{10}{23}$

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

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

Multiply. Write the answer in simplest form.

130) $2\frac{1}{4} \cdot 4\frac{1}{10} \cdot 5\frac{2}{3}$

130) _____

A) $\frac{2091}{40}$

B) $11\frac{1}{48}$

C) $40\frac{1}{60}$

D) $40\frac{1}{48}$

131) $\frac{5}{1} \cdot \frac{12}{17}$

131) _____

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

B) $\frac{85}{12}$

C) $\frac{22}{13}$

D) $\frac{17}{18}$

Simplify.

132) $\frac{46}{1}$

132) _____

A) 45

B) 46

C) $\frac{1}{46}$

D) 1

Solve.

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

133) _____



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

A) 21 ft

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

C) 63 ft

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

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

134) $40 \div 1\frac{1}{3}$

134) _____

A) 29

B) 30

C) 31

D) $28\frac{1}{2}$

Multiply. Write the answer in simplest form.

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

135) _____

A) $\frac{1}{54}$

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

C) $\frac{55}{6}$

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

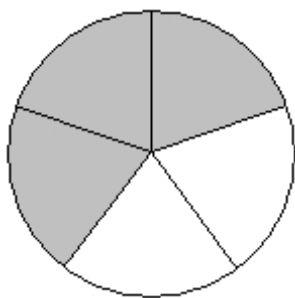
Fill in the blank with one of the words or phrases listed below.

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

- 136) A fraction is in _____ when the numerator and the denominator have no factors in common other than 1. 136) _____
- A) 0 B) simplest form
C) equivalent D) prime factorization

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

- 137) 137) _____



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

Solve.

- 138) On a recent trip, Asha drove 258 miles on $10\frac{1}{6}$ gallons of gasoline. How many miles per gallon did she average? 138) _____
- A) $430\frac{1}{6}$ miles per gallon B) $25\frac{23}{61}$ miles per gallon
C) 2623 miles per gallon D) $\frac{61}{1548}$ miles per gallon

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		

- 139) Two numbers are _____ of each other if their product is 1. 139) _____
- A) composite number B) undefined
C) reciprocals D) mixed number

Write the improper fraction as a mixed or whole number.

140) $\frac{28}{5}$

140) _____

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

B) $6\frac{3}{5}$

C) $4\frac{3}{5}$

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

Multiply. Write the answer in simplest form.

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

141) _____

A) $\frac{12}{25}$

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

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

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

Divide. Write the answer in simplest form.

142) $\frac{2}{4} \div \frac{4}{6}$

142) _____

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

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

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

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

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

143) $\frac{10}{7} \cdot \frac{17}{19}$

143) _____

A) $\frac{29}{24}$

B) $\frac{170}{133}$

C) $\frac{190}{119}$

D) $\frac{27}{26}$

Determine whether the pair of fractions is equivalent.

144) $\frac{5}{9}$ and $\frac{20}{36}$

144) _____

A) not equivalent

B) equivalent

Solve. Write the fractions in simplest form.

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

145) _____

A) $\frac{12}{100}$

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

C) $\frac{3}{25}$

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

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

146) 32

146) _____

A) $2 \cdot 5$

B) 5^2

C) 2^5

D) Prime

Solve.

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

147) _____

A) $2\frac{1}{3}$ ft

B) $1\frac{8}{9}$ ft

C) 17 ft

D) $5\frac{2}{9}$ ft

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

148) $\frac{38}{7} \div \frac{1}{7}$

148) _____

A) 38

B) $\frac{73}{2}$

C) 37

D) 39

Write the mixed number as an improper fraction.

149) $7\frac{6}{7}$

149) _____

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

B) $\frac{49}{6}$

C) $\frac{55}{7}$

D) $\frac{55}{6}$

Multiply. Write the answer in simplest form.

150) $\frac{1}{17} \cdot 1$

150) _____

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

B) 1

C) 17

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

151) $\frac{7}{2} \cdot \frac{11}{17}$

151) _____

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

B) $\frac{119}{22}$

C) $\frac{77}{34}$

D) $\frac{18}{19}$

Divide. Write the answer in simplest form.

152) $\frac{22}{5} \div \frac{2}{5}$

152) _____

A) 10

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

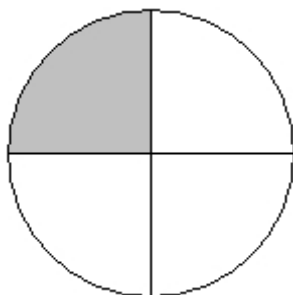
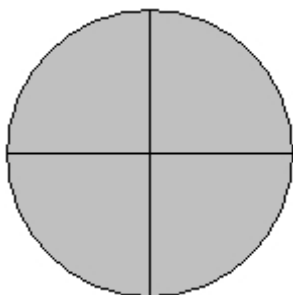
C) 12

D) 11

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

153)

153) _____



A) $1\frac{3}{4}; \frac{5}{4}$

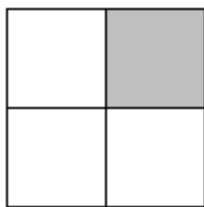
B) $1\frac{5}{8}; \frac{5}{4}$

C) $2\frac{1}{4}; \frac{5}{4}$

D) $1\frac{1}{4}; \frac{5}{4}$

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

154)



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

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

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

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

154) _____

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

155) 792

A) $2 \cdot 3^4 \cdot 11$

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

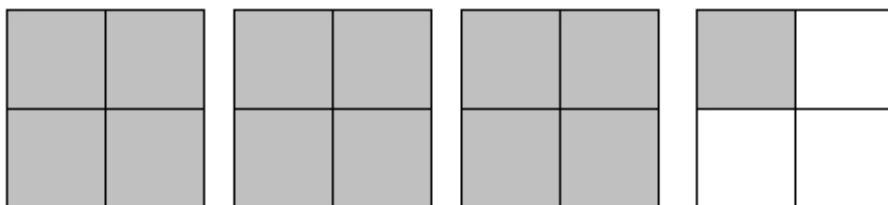
C) $2^3 \cdot 3^3 \cdot 11$

D) $2^4 \cdot 3 \cdot 11$

155) _____

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

156)



A) $3\frac{1}{4}; \frac{13}{4}$

B) $4\frac{13}{16}; \frac{13}{4}$

C) $4\frac{1}{4}; \frac{13}{4}$

D) $3\frac{13}{16}; \frac{13}{4}$

156) _____

Divide. Write the answer in simplest form.

157) $\frac{8}{10} \div \frac{1}{11}$

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

B) $27\frac{2}{4}$

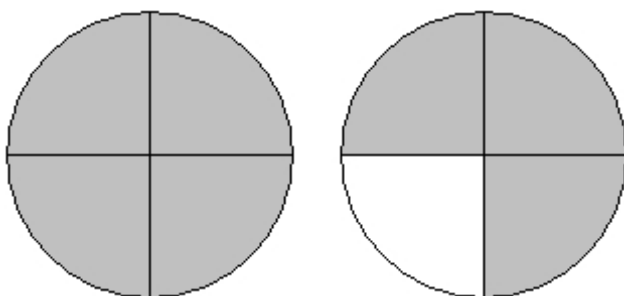
C) $\frac{44}{5}$

D) $\frac{4}{110}$

157) _____

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

158)



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

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

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

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

158) _____

Divide. Write the answer in simplest form.

159) $\frac{3}{5} \div \frac{3}{5}$

159) _____

A) $\frac{9}{25}$

B) 1

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

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

Write the fraction in simplest form.

160) $\frac{50}{80}$

160) _____

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

B) $\frac{10}{8}$

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

D) $\frac{50}{80}$

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

mixed number
composite number
prime number
reciprocals

equivalent
improper fraction
proper fraction
cross products

0
simplest form
numerator

undefined
prime factorization
denominator

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

161) _____

A) mixed number

B) proper fraction

C) improper fraction

D) prime number

Write the fraction.

162) 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?

162) _____

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

B) $\frac{20}{59}$

C) $\frac{59}{20}$

D) $\frac{20}{90}$

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

mixed number
composite number
prime number
reciprocals

equivalent
improper fraction
proper fraction
cross products

0
simplest form
numerator

undefined
prime factorization
denominator

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

163) _____

A) prime number

B) simplest form

C) undefined

D) equivalent

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

164) 6500

164) _____

A) $2^4 \cdot 13$

B) $2^2 \cdot 5^3 \cdot 13$

C) $2^3 \cdot 5^2 \cdot 13$

D) $5^4 \cdot 13$

Multiply. Write the answer in simplest form.

165) $6 \cdot 4\frac{5}{14}$

165) _____

A) $10\frac{1}{7}$

B) $24\frac{5}{14}$

C) $26\frac{1}{7}$

D) $26\frac{3}{7}$

Write the fraction in simplest form.

166) $\frac{22}{49}$

166) _____

A) $\frac{24}{11}$

B) $\frac{11}{24}$

C) $\frac{22}{49}$

D) $\frac{1}{49}$

Multiply. Write the answer in simplest form.

167) $\frac{3}{9} \cdot \frac{21}{14}$

167) _____

A) $\frac{24}{23}$

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

C) $\frac{17}{30}$

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

168) $2 \cdot 5\frac{3}{10}$

168) _____

A) 10

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

C) $9\frac{3}{5}$

D) $10\frac{3}{5}$

Divide. Write the answer in simplest form.

169) $4\frac{5}{9} \div 1\frac{3}{5}$

169) _____

A) $2\frac{61}{72}$

B) $3\frac{61}{72}$

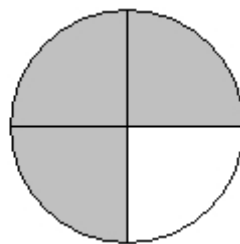
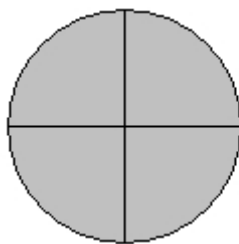
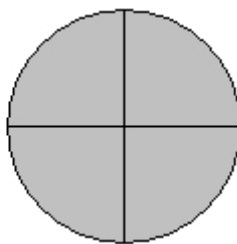
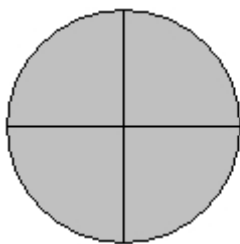
C) $2\frac{61}{71}$

D) $2\frac{62}{72}$

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

170)

170) _____



A) $3\frac{15}{16}; \frac{15}{4}$

B) $3\frac{1}{4}; \frac{13}{4}$

C) $4\frac{3}{4}; \frac{15}{4}$

D) $3\frac{3}{4}; \frac{15}{4}$

Identify the number as prime or composite.

171) 42

171) _____

A) Prime

B) Composite

Write the improper fraction as a mixed or whole number.

172) $\frac{43}{6}$

172) _____

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

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

C) $8\frac{1}{6}$

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

Write the fraction.

173) Of the 90 teachers at a school, 68 are women. What fraction of the teachers are NOT women? 173) _____

A) $\frac{90}{22}$

B) $\frac{68}{22}$

C) $\frac{22}{68}$

D) $\frac{22}{90}$

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

174) $\frac{19}{9} \cdot \frac{18}{5} \cdot 4$ 174) _____

A) $\frac{19}{10}$

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

C) $\frac{41}{45}$

D) $\frac{152}{5}$

Write the mixed number as an improper fraction.

175) $6\frac{5}{7}$ 175) _____

A) $\frac{42}{7}$

B) $\frac{47}{5}$

C) $\frac{42}{5}$

D) $\frac{47}{7}$

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

176) 90 176) _____

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

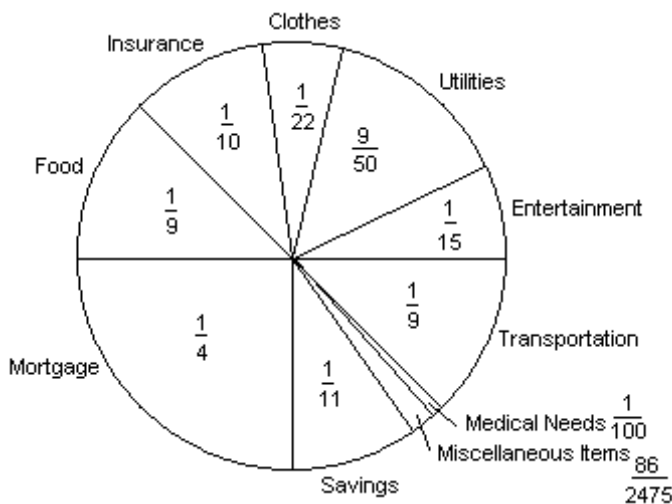
B) $2 \cdot 3 \cdot 5$

C) $10 \cdot 3^2$

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

Solve. Write the answer in simplest form.

177) The circle graph below shows the fractional part of the Suarez family's budget spent in each category each month. 177) _____



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) \$450.00

C) \$166.67

D) \$113.64

List all the factors of the number.

178) 36 178) _____

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

B) 1, 2, 4, 6, 12, 18, 36

C) 2, 4, 6, 12, 18, 36

D) 1, 2, 3, 4, 6, 9, 12, 18, 36

Divide. Write the answer in simplest form.

179) $\frac{2}{3} \div 1$

179) _____

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

B) 1

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

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

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

180) $3\frac{3}{5} \cdot 3\frac{1}{3}$

180) _____

A) 12

B) 7

C) 11

D) 9

Divide. Write the answer in simplest form.

181) $1 \div \frac{3}{6}$

181) _____

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

B) 2

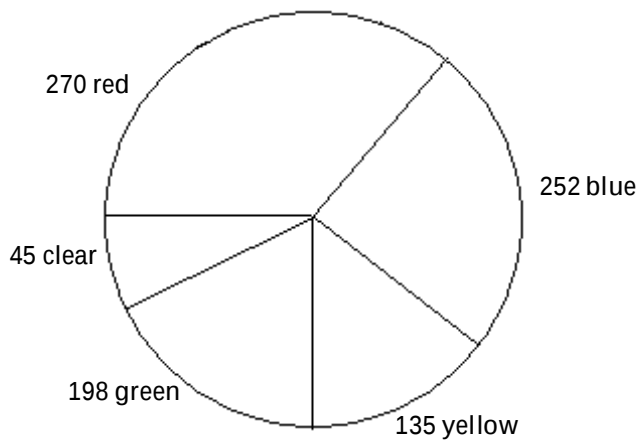
C) $\frac{1}{2}$

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

Solve. Write the fractions in simplest form.

182) 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.

182) _____



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

B) $\frac{270}{900}$

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

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

Multiply. Write the answer in simplest form.

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

183) _____

A) $\frac{18}{29}$

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

C) 0

D) undefined

Identify the number as prime or composite.

184) 16

184) _____

A) Composite

B) Prime

Solve. Write the answer in simplest form.

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

Solve.

- 186) 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)? 186) _____
- A) $2\frac{5}{88}$ miles per hour B) $1\frac{6}{88}$ miles per hour
C) $1\frac{5}{88}$ miles per hour D) $1\frac{5}{87}$ miles per hour

Write the improper fraction as a mixed or whole number.

- 187) $\frac{49}{7}$ 187) _____
- A) 7 B) 50 C) $\frac{7}{2}$ D) 48

Solve. Write the fractions in simplest form.

- 188) A real estate agent categorized 100 available homes by housing style. 188) _____

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

Divide. Write the answer in simplest form.

- 189) $\frac{1}{13} \div \frac{5}{17}$ 189) _____
- A) $\frac{17}{65}$ B) $\frac{16}{65}$ C) $\frac{15}{65}$ D) $\frac{17}{63}$

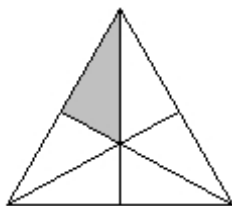
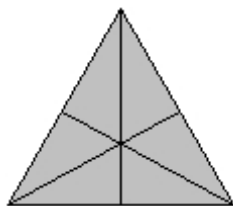
Solve. Write the answer in simplest form.

- 190) 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? 190) _____
- A) \$1413 B) \$471 C) \$157 D) \$30,772

- 191) 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?
- 191) _____
- A) $1\frac{6}{45}$ hours B) $\frac{9}{15}$ hour C) $2\frac{11}{15}$ hours D) $\frac{11}{15}$ hour

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

- 192) _____



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

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

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

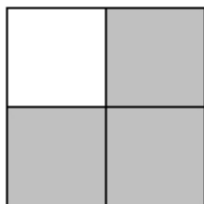
D) $1\frac{1}{6}; \frac{7}{6}$

Write the fraction.

- 193) Of the 252 students at a college, 47 are freshmen. What fraction of the students are NOT freshmen?
- 193) _____
- A) $\frac{252}{205}$ B) $\frac{47}{252}$ C) $\frac{205}{47}$ D) $\frac{205}{252}$

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

- 194) _____



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

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

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

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

Write the mixed number as an improper fraction.

- 195) $279\frac{7}{8}$
- 195) _____
- A) $\frac{2239}{8}$ B) 286 C) 1953 D) $\frac{1953}{8}$

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

- 196) $\frac{1}{7} \cdot \frac{2}{3}$
- 196) _____
- A) $\frac{14}{3}$ B) $\frac{21}{2}$ C) $\frac{3}{10}$ D) $\frac{2}{21}$

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

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

197) _____

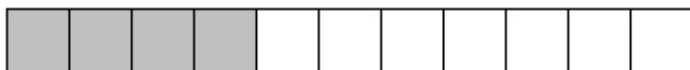
A)



B)



C)



D)



Solve.

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

198) _____



A) $3\frac{3}{28}$ m

B) $6\frac{3}{14}$ m

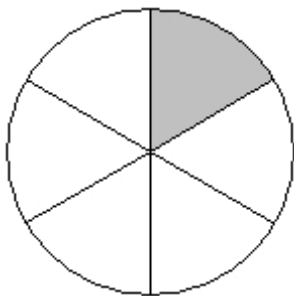
C) $49\frac{5}{7}$ m

D) $24\frac{6}{7}$ m

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

199)

199) _____



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

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

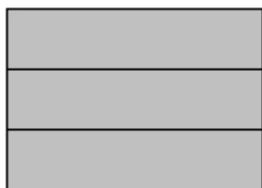
C) $\frac{5}{1}$

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

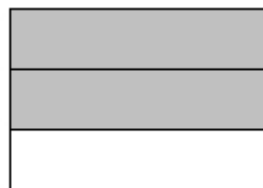
Write the shaded area in the figure as a mixed number and as an improper fraction.

200)

200) _____



A) $1\frac{2}{3}$; $\frac{5}{3}$



B) $5\frac{1}{3}$; $\frac{5}{3}$

C) $1\frac{5}{6}$; $\frac{5}{3}$

D) $2\frac{2}{3}$; $\frac{5}{3}$

Solve. Write the answer in simplest form.

201) On a recent trip, Asha drove 268 miles on $12\frac{1}{6}$ gallons of gasoline. How many miles per gallon did she average? 201) _____

A) $3260\frac{2}{3}$ miles per gallon

B) $536\frac{1}{6}$ miles per gallon

C) $22\frac{2}{73}$ miles per gallon

D) $\frac{73}{1608}$ miles per gallon

Solve.

202) On a recent trip, Asha drove 256 miles on $10\frac{1}{4}$ gallons of gasoline. How many miles per gallon did she average? 202) _____

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

B) $24\frac{40}{41}$ miles per gallon

C) $640\frac{1}{4}$ miles per gallon

D) 2624 miles per gallon

Write the mixed number as an improper fraction.

203) $9\frac{2}{5}$ 203) _____

A) $\frac{47}{5}$

B) $\frac{45}{2}$

C) $\frac{45}{5}$

D) $\frac{47}{2}$

Find the prime factorization of the number.

204) 198 204) _____

A) $22 \cdot 3^2$

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

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

D) $2 \cdot 3 \cdot 11$

Solve.

205) 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)? 205) _____

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

B) $1\frac{1}{98}$ miles per hour

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

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

Write the fraction.

206) 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? 206) _____

A) $\frac{13}{100}$

B) $\frac{66}{100}$

C) $\frac{66}{34}$

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

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

207) 610 207) _____

A) $10 \cdot 61$

B) $5^2 \cdot 61$

C) $2 \cdot 5 \cdot 61$

D) $2^2 \cdot 61$

Solve.

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

208) _____

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

B) $25\frac{1}{2}$ ft

C) $\frac{17}{24}$ ft

D) $4\frac{1}{24}$ ft

Write the fraction.

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

209) _____

A) $\frac{87}{40}$

B) $\frac{40}{87}$

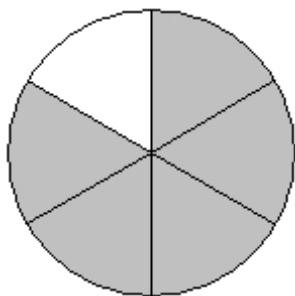
C) $\frac{47}{40}$

D) $\frac{40}{47}$

Write a fraction to represent the shaded area.

210)

210) _____



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

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

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

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

Write the fraction in simplest form.

211) $\frac{870}{2030}$

211) _____

A) $\frac{116}{203}$

B) $\frac{87}{203}$

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

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

Determine whether the pair of fractions is equivalent.

212) $\frac{27}{36}$ and $\frac{24}{32}$

212) _____

A) not equivalent

B) equivalent

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

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

213) _____

A)



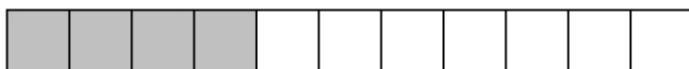
B)



C)



D)



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

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

214) _____

A) proper fraction

B) prime number

C) improper fraction

D) mixed number

Determine whether the pair of fractions is equivalent.

215) $\frac{2}{14}$ and $\frac{3}{28}$

215) _____

A) equivalent

B) not equivalent

Write the fraction in simplest form.

216) $\frac{18}{45}$

216) _____

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

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

C) $\frac{18}{45}$

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

Determine whether the pair of fractions is equivalent.

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

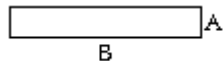
217) _____

A) not equivalent

B) equivalent

Solve. Write the answer in simplest form.

- 218) Find the area of the rectangle. Write the answer in simplest form. Recall that the area = (length) · (width). 218) _____



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

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

A) 4 square yards

B) $\frac{28}{13}$ square yards

C) $\frac{52}{13}$ square yards

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

Divide. Write the answer in simplest form.

219) $\frac{9}{2} \div \frac{9}{8}$ 219) _____

A) $\frac{81}{16}$

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

C) 4

D) $\frac{17}{11}$

Multiply. Write the answer in simplest form.

220) $3\frac{3}{4} \cdot 5\frac{1}{3}$ 220) _____

A) 13

B) 19

C) 15

D) 20

221) $2\frac{4}{9} \cdot \frac{3}{8}$ 221) _____

A) $\frac{9}{12}$

B) $2\frac{12}{72}$

C) $4\frac{11}{12}$

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

Solve. Write the answer in simplest form.

222) Find $\frac{1}{11}$ of 77. 222) _____

A) 7

B) 847

C) 11

D) $\frac{1}{847}$

Identify the number as prime or composite.

223) 157 223) _____

A) Composite

B) Prime

Determine whether the pair of fractions is equivalent.

224) $\frac{5}{8}$ and $\frac{60}{96}$ 224) _____

A) equivalent

B) not equivalent

Solve.

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

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		

- 226) In $\frac{a}{b} = \frac{c}{d}$, $a \cdot d$ and $b \cdot c$ are called _____. 226) _____
- A) cross products B) prime factorization
C) reciprocals D) simplest form

Write the improper fraction as a mixed or whole number.

- 227) $\frac{296}{11}$ 227) _____
- A) $296\frac{11}{296}$ B) $26\frac{10}{11}$ C) $\frac{11}{296}$ D) $296\frac{296}{11}$

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		

- 228) A(n) _____ contains a whole number part and a fraction part. 228) _____
- A) mixed number B) prime number
C) composite number D) prime factorization

Divide. Write the answer in simplest form.

- 229) $\frac{2}{17} \div \frac{7}{15}$ 229) _____
- A) $\frac{4}{17}$ B) $\frac{30}{119}$ C) $\frac{10}{39}$ D) $\frac{29}{119}$

List all the factors of the number.

- 230) 56 230) _____
- 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, 28, 56 D) 1, 2, 4, 7, 8, 14, 18, 28, 56

Find the prime factorization of the number.

231) 2200

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

B) $2^4 \cdot 5 \cdot 11$

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

D) $2 \cdot 5^4 \cdot 11$

231) _____

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

232) $3\frac{3}{4} \cdot 4\frac{2}{3}$

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

Estimate: 20

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

Estimate: 12

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

Estimate: 12

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

Estimate: 20

232) _____

Multiply. Write the answer in simplest form.

233) $\frac{1}{4} \cdot \frac{12}{23}$

A) $\frac{13}{27}$

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

C) $\frac{23}{48}$

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

233) _____

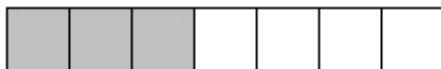
Draw and shade a part of a diagram to represent the figure.

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

A)



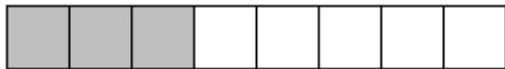
B)



C)



D)



234) _____

Solve. Write the answer in simplest form.

235) 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?

A) \$167

B) \$501

C) \$66,800

D) \$1503

235) _____

Answer Key

Testname: CH 2

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

Answer Key

Testname: CH 2

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

Answer Key

Testname: CH 2

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

Answer Key

Testname: CH 2

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

Answer Key

Testname: CH 2

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