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SKU: 9780135308530-TEST-BANK

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

Determine the place value of the digit 3 in the whole number.

1) 2530
A) Tens B) Ones C) Hundreds D) Thousands
Answer: A

2) 30,542
A) Tens B) Hundred–thousands
C) Ten–thousands D) Thousands
Answer: C

3) 25,304,168
A) Thousands B) Hundred–thousands
C) Ten–thousands D) Hundreds
Answer: B

4) 30,500,421
A) Ten–millions B) Tens C) Ten–thousands D) Millions
Answer: A

5) 1392
A) Ones B) Tens C) Thousands D) Hundreds
Answer: D

6) 403,681,295
A) Hundred–millions B) Thousands
C) Hundred–thousands D) Millions
Answer: D

7) 463,981
A) Ten–thousands B) Thousands
C) Hundreds D) Hundred–thousands
Answer: B

8) 45,271,903
A) Ones B) Tens C) Ten–millions D) Hundreds
Answer: A

Write a word name for the whole number.

9) 3072
A) Thirty thousand, seventy–two B) Three hundred thousand, seventy–two
C) Three thousand, seventy–two D) Three million, seventy–two
Answer: C

10) 5168
A) Fifty–one thousand, sixty–eight B) Five thousand, one hundred sixty–eight
C) Five million, one thousand, sixty–eight D) Five hundred thousand, one hundred sixty–eight
Answer: B

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11) 24,807

A) Two thousand, four hundred eighty–seven
B) Two million, forty–eight thousand, seven
C) Two hundred forty–eight thousand, seven
D) Twenty–four thousand, eight hundred seven

Answer: D

12) 70,146

A) Seven hundred one thousand, forty–six
B) Seven thousand, one hundred forty–six
C) Seven million, one thousand, forty–six
D) Seventy thousand, one hundred forty–six

Answer: D

13) 135,060

A) Thirteen thousand, five hundred sixty
B) One hundred thirty–five thousand, sixty
C) One million, thirty–five thousand, sixty
D) Thirteen thousand, five hundred six

Answer: B

14) 9,300,695

A) Nine million, three thousand, six hundred ninety–five
B) Nine million, thirty thousand, six hundred ninety–five
C) Ninety–three thousand, six hundred ninety–five
D) Nine million, three hundred thousand, six hundred ninety–five

Answer: D

15) 22,000,674

A) Two million, two thousand, six hundred seventy–four
B) Twenty–two hundred million, six hundred seventy–four
C) Twenty–two million, six hundred seventy–four
D) Twenty–two million, six thousand seventy–four

Answer: C

16) 64,568,009

A) Sixty–four million, five hundred thousand, sixty–eight hundred, nine
B) Sixty million, forty–five thousand, sixty–eight hundred and nine
C) Sixty–million, five thousand sixty–eight hundred, nine
D) Sixty–four million, five hundred sixty–eight thousand, nine

Answer: D

17) 235,060

A) Two million, thirty–five thousand, sixty
B) Twenty–three thousand, five hundred six
C) Two hundred thirty–five thousand, sixty
D) Twenty–three thousand, five hundred sixty

Answer: C

18) 4,200,091

A) Four million, twenty thousand, ninety–one
B) Four million, two hundred ninety–one
C) Forty–two thousand, ninety–one
D) Four million, two hundred thousand, ninety–one

Answer: D

Write the whole number in standard form.

19) Eight thousand, one hundred sixty–seven

A) 800,167
B) 8167
C) 81,067
D) 810,067

Answer: B

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20) Thirty–two thousand, nine hundred five

A) 32,950 B) 32,905 C) 320,905 D) 3295

Answer: B

21) Seven thousand, six

A) 76,000 B) 7600 C) 7006 D) 7060

Answer: C

22) Forty–eight thousand, seventeen

A) 48,017 B) 4817 C) 47,180 D) 48,170

Answer: A

23) Six hundred thirty–eight thousand, nine hundred ninety–seven

A) 638,997 B) 638,977 C) 638,997,000 D) 638,000

Answer: A

24) Two hundred six thousand, one hundred seven

A) 206,107 B) 260,170 C) 207,106 D) 2617

Answer: A

25) One hundred million, six thousand

A) 1006 B) 100,006,000 C) 1,600,000 D) 106,000,000

Answer: B

26) Ten million, three hundred fifty–four thousand, two hundred three

A) 1,354,230 B) 1,354,203 C) 10,354,203 D) 135,423

Answer: C

27) One billion

A) 1,000,000 B) 1,000,000,000,000 C) 2,000,000,000 D) 1,000,000,000

Answer: D

Write the whole number in expanded form.

28) 185

A) 500 + 80 + 1 B) 100 + 80 + 5 C) 1000 + 800 + 50 D) 18,500

Answer: B

29) 1546

A) 1000 + 500 + 40 + 6 B) 100 + 40 + 5 C) 1,546,000 D) 6000 + 400 + 50 + 1

Answer: A

30) 25,679

A) 90,000 + 7000 + 600 + 50 + 2 B) 20,000 + 5000 + 600 + 70 + 9

C) 25,679 D) 2000 + 500 + 60 + 79

Answer: B

31) 80,700

A) 80,000 + 7000 B) 8,700,000 C) 80,000 + 700 D) 8000 + 700

Answer: C

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32) 9080

A) 908,000 B) 9000 + 80 C) 900 + 8 D) 90,000 + 8000

Answer: B

33) 50,170

A) 50,000 + 100 + 70 B) 5000 + 10 + 7 C) 5000 + 100 + 7 D) 50,000 + 1000 + 70

Answer: A

34) 32,501,002

A) 30,000,000 + 2,000,000 +500,000 +100 + 2 B) 30,000,000 + 2,000,000 + 500,000 + 1000 + 2

C) 30,000,000 + 200,000 + 50,000 + 1000 + 2 D) 32,000,000 + 501,000 + 2

Answer: B

Insert either < or > in the blank between the pair of whole numbers to make a true statement.

35) 26 ____ 29

A) > B) <

Answer: B

36) 37 ____ 33

A) < B) >

Answer: B

37) 0 ____ 32

A) > B) <

Answer: B

38) 13 ____ 0

A) > B) <

Answer: A

39) 86 ____ 148

A) < B) >

Answer: A

40) 495 ____ 71

A) < B) >

Answer: B

41) 135 ____ 133

A) < B) >

Answer: B

42) 525 ____ 572

A) > B) <

Answer: B

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43) 1781 ____ 1783

A) < B) >

Answer: A

Round the whole number to the given place value.

44) 626 to the nearest ten

A) 730 B) 640 C) 630 D) 620

Answer: C

45) 14,030 to the nearest hundred

A) 14,000 B) 14,010 C) 14,100 D) 13,900

Answer: A

46) 9148 to the nearest thousand

A) 9100 B) 8900 C) 9000 D) 10,000

Answer: C

47) 87,210 to the nearest thousand

A) 88,000 B) 97,000 C) 87,100 D) 87,000

Answer: D

48) 446,769 to the nearest ten thousand

A) 446,000 B) 440,000 C) 500,000 D) 450,000

Answer: D

49) 39,816,276 to the nearest million

A) 39,900,000 B) 39,816,000 C) 39,000,000 D) 40,000,000

Answer: D

50) 94,998 to the nearest ten

A) 94,990 B) 95,000 C) 94,000 D) 94,900

Answer: B

51) 9995 to the nearest ten

A) 100,000 B) 10,090 C) 10,000 D) 9990

Answer: C

52) 218,255 to the nearest ten–thousand

A) 210,000 B) 300,000 C) 220,000 D) 218,000

Answer: C

53) 21,829,342 to the nearest million

A) 21,000,000 B) 22,000,000 C) 21,900,000 D) 21,829,000

Answer: B

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Use the table to answer the question. Write the number in words.

Housing Types for independent adults:	
Renting an apartment	18,290,023
Renting a house	5,153,354
Owning a condo	7,379,211
Own ing a house	20,652,853

54) Which type of housing is least used?
A) owning a condo; seven million, three hundred seventy–nine thousand, two hundred eleven
B) renting a house; five million, one hundred fifty–three thousand, three hundred fifty–four
C) renting a house; five billion, one hundred fifty–three thousand, three hundred fifty–four
D) owning a condo; seven thousand, three hundred seventy–nine million, two hundred eleven

Answer: B

55) Which type of housing is most used?
A) renting a house; five million, one hundred fifty–three thousand, three hundred fifty–four
B) owning a house; twenty million, six hundred fifty–two thousand, eight hundred fifty–three
C) owning a house; twenty billion, six hundred fifty–two million, eight hundred fifty–three
D) owning a condo; seven thousand, three hundred seventy–nine million, two hundred eleven

Answer: B

56) Find the number of people who own a condo.
A) five million, one hundred fifty–three thousand, three hundred fifty–four
B) seven million, three hundred seventy–nine thousand, two hundred eleven
C) seven billion, three hundred seventy–nine thousand, two hundred eleven
D) seventy–three million, seventy–nine thousand, two hundred eleven

Answer: B

57) Find the number of people who rent an apartment.
A) eighteen billion, two hundred ninety thousand, twenty–three
B) one million, eight hundred twenty–nine thousand, twenty–three
C) twenty million, six hundred fifty–two thousand, eight hundred fifty–three
D) eighteen million, two hundred ninety thousand, twenty–three

Answer: D

The table shows the number of votes each candidate received in the last election.

Candidate	Votes
Mr. Olsen	2078
Ms. Li	3760
Mr. Barone	2780
Ms. Vaporis	3706

58) Write in words the number of votes received by Mr. Olsen.
A) twenty thousand, seventy–eight
B) two thousand, seventy–eight
C) two thousand, seven hundred eighty
D) two thousand, seven hundred eight

Answer: B

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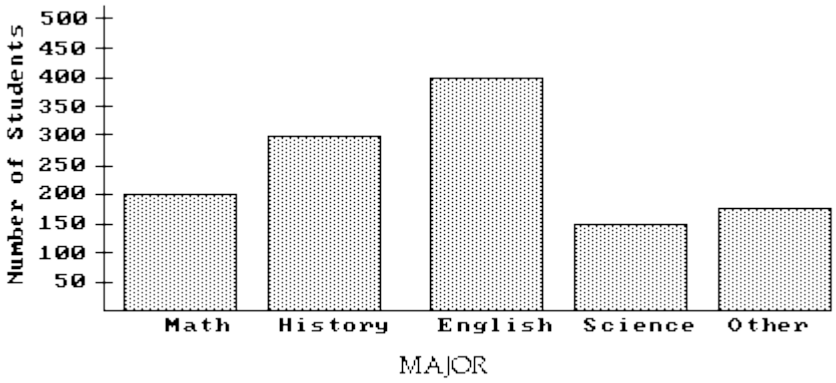
59) Write in words the number of votes received by Ms. Li.

A) three thousand, seventy-six
B) three hundred seventy-six
C) three thousand, seven hundred sixty
D) thirty-seven thousand, sixty

Answer: C

Use the bar graph to answer the question.

60) The bar graph below shows the number of students by major in the College of Arts and Sciences.

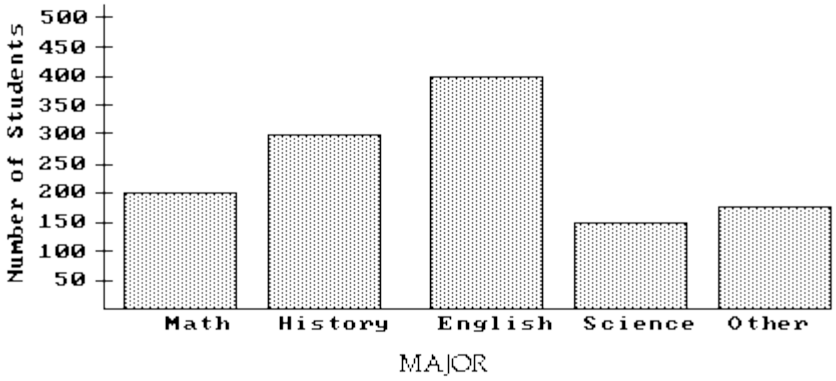


How many students are majoring in Math?

A) 250 students
B) 200 students
C) 150 students
D) 300 students

Answer: B

61) The bar graph below shows the number of students by major in the College of Arts and Sciences.



About how many students are in the College of Arts and Sciences?

A) 1225 students
B) 1325 students
C) 1100 students
D) 1050 students

Answer: A

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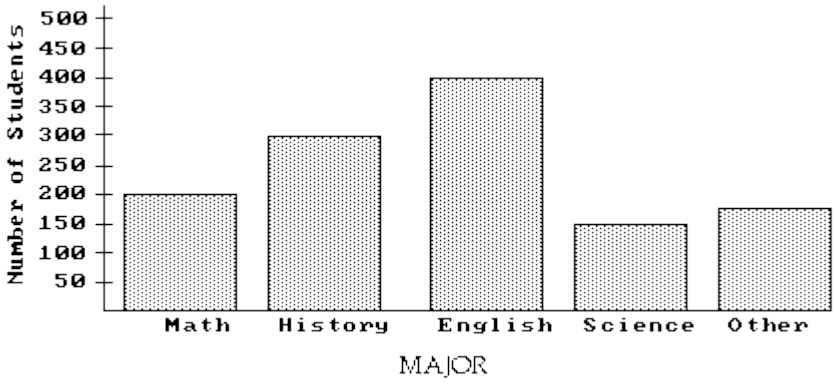
62) The bar graph below shows the number of students by major in the College of Arts and Sciences.

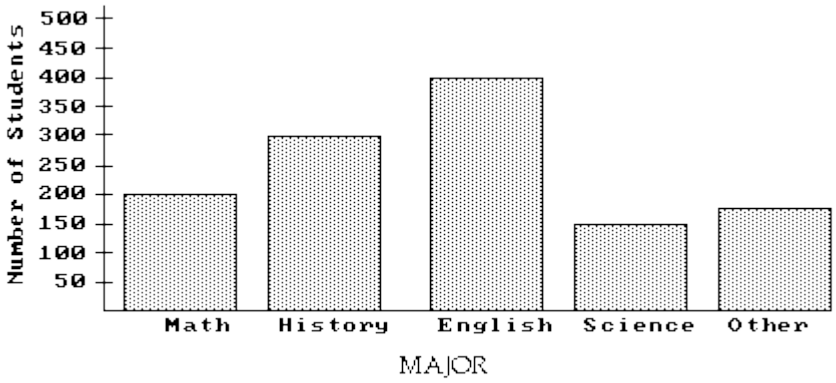


Which major has the largest number of students?

A) History B) Science C) Math D) English

Answer: D

63) The bar graph below shows the number of students by major in the College of Arts and Sciences.



Which major has about 200 students?

A) History B) Science C) Math D) English

Answer: C

Identify the numerator and denominator of the fraction.

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

A) Numerator: 4
Denominator: 7

B) Numerator: 7
Denominator: 4

C) Numerator: 11
Denominator: 1

D) Numerator: $\frac{4}{7}$
Denominator: 7

Answer: B

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

A) Numerator: 19
Denominator: 13

B) Numerator: 1
Denominator: $\frac{13}{19}$

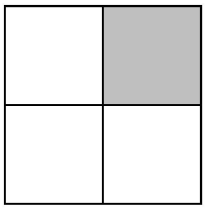
C) Numerator: $\frac{19}{13}$
Denominator: 1

D) Numerator: 13
Denominator: 19

Answer: A

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

66)



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

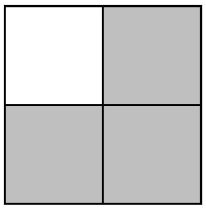
B) $\frac{1}{3}$

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

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

Answer: A

67)



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

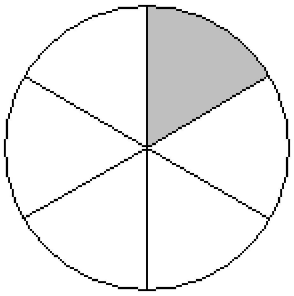
B) $\frac{3}{4}$

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

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

Answer: B

68)



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

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

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

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

Answer: A

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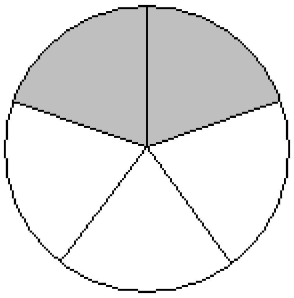
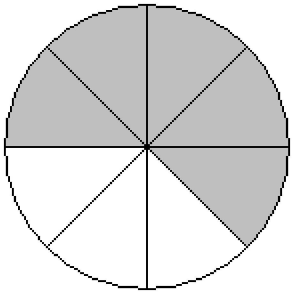
69)



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

Answer: D

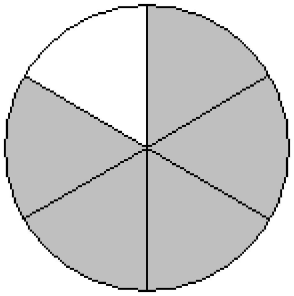
70)



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

Answer: C

71)



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

Answer: A

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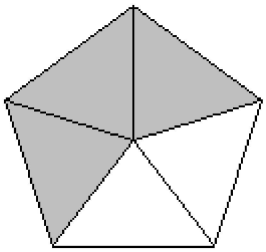
72)



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

Answer: C

73)

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

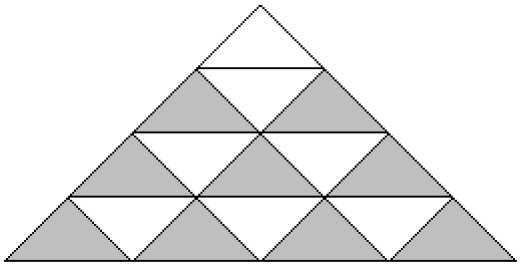
Answer: D

74)

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

Answer: A

75)

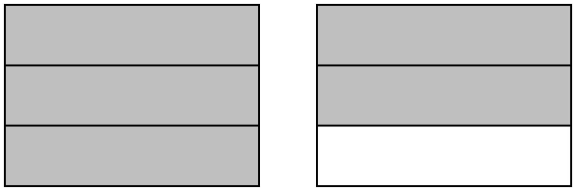


A) $\frac{7}{16}$ B) $\frac{7}{9}$ C) $\frac{9}{7}$ D) $\frac{9}{16}$

Answer: D

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

76)



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

Answer: A

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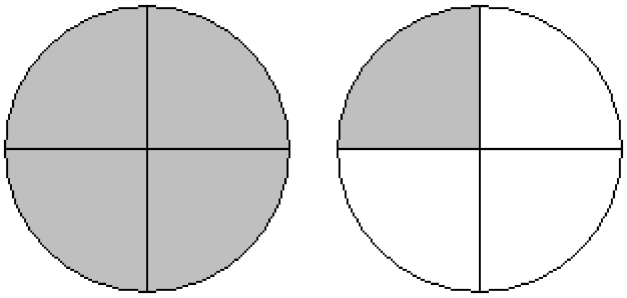
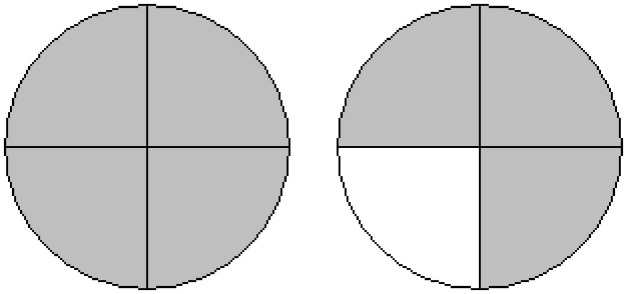
77)



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

Answer: D

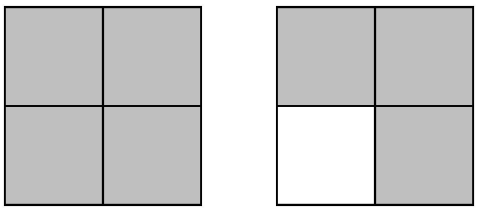
78)



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

Answer: B

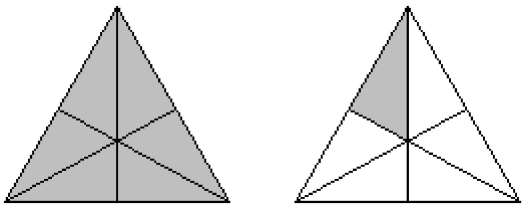
79)



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

Answer: D

80)



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

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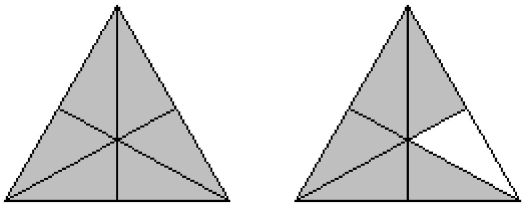
81)



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

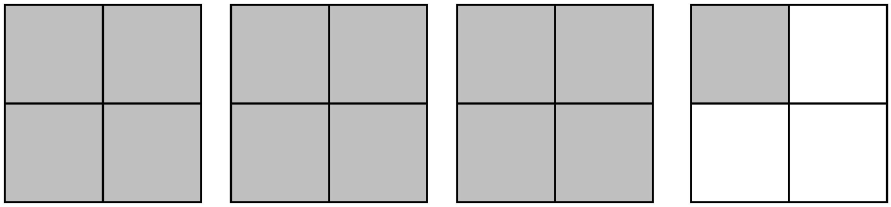
Answer: D

82)

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

Answer: C

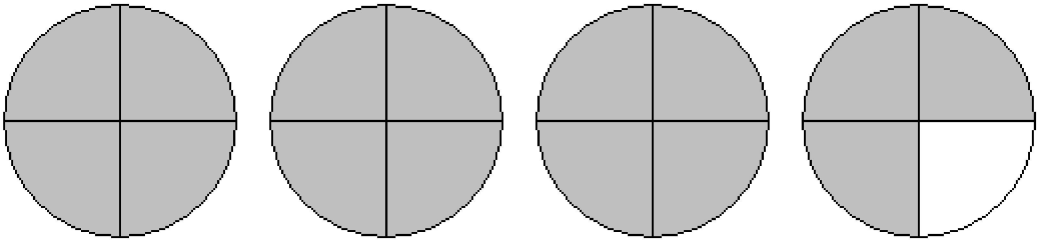
83)



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

Answer: B

84)



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

Answer: D

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Write the mixed number as an improper fraction.

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

A) $\frac{19}{3}$ B) $\frac{16}{3}$ C) $\frac{19}{4}$ D) $\frac{16}{4}$

Answer: C

86) $2\frac{3}{4}$

A) $\frac{8}{3}$ B) $\frac{11}{3}$ C) $\frac{11}{4}$ D) $\frac{8}{4}$

Answer: C

87) $3\frac{2}{5}$

A) $\frac{17}{5}$ B) $\frac{17}{2}$ C) $\frac{15}{2}$ D) $\frac{15}{5}$

Answer: A

88) $3\frac{4}{5}$

A) $\frac{19}{4}$ B) $\frac{15}{4}$ C) $\frac{19}{5}$ D) $\frac{15}{5}$

Answer: C

89) $14\frac{19}{25}$

A) 33 B) 266 C) $\frac{369}{25}$ D) $\frac{266}{25}$

Answer: C

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

90) $\frac{34}{3}$

A) $10\frac{1}{7}$ B) $\frac{1}{3}$ C) $12\frac{1}{3}$ D) $11\frac{1}{3}$

Answer: D

91) $\frac{37}{5}$

A) $8\frac{2}{5}$ B) $6\frac{2}{5}$ C) $7\frac{2}{7}$ D) $7\frac{2}{5}$

Answer: D

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

A) $6\frac{2}{3}$ B) $5\frac{2}{3}$ C) $4\frac{2}{3}$ D) $5\frac{2}{7}$

Answer: B

93) $\frac{105}{7}$

A) 106 B) 15 C) 104 D) $\frac{15}{2}$

Answer: B

94) $\frac{14}{3}$

A) $4\frac{2}{3}$ B) $\frac{3}{14}$ C) $42\frac{3}{14}$ D) $42\frac{14}{3}$

Answer: A

95) $\frac{152}{11}$

A) $\frac{11}{152}$ B) $13\frac{9}{11}$ C) $152\frac{152}{11}$ D) $152\frac{11}{152}$

Answer: B

96) $\frac{147}{142}$

A) $1\frac{5}{147}$ B) $1\frac{142}{5}$ C) $1\frac{5}{142}$ D) $142\frac{5}{142}$

Answer: C

97) $\frac{673}{125}$

A) $6\frac{48}{125}$ B) $5\frac{48}{125}$ C) $5\frac{47}{125}$ D) $4\frac{48}{125}$

Answer: B

Determine whether the natural number is prime or composite.

98) 45

A) Prime B) Composite

Answer: B

99) 53

A) Composite B) Prime

Answer: B

100) 88

A) Prime B) Composite

Answer: B

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101) 5

A) Prime B) Composite

Answer: A

102) 4

A) Prime B) Composite

Answer: B

Find the prime factorization of each composite number. Use exponents to show any repeated prime factors.

103) 45

A) $9 \cdot 5$ B) 5^2 C) $9 \cdot 3$ D) $3^2 \cdot 5$

Answer: D

104) 126

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

Answer: C

105) 36

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

Answer: B

106) 16

A) 4^2 B) $2 \cdot 4$ C) prime D) 2^4

Answer: D

107) 165

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

Answer: B

108) 58

A) 2^2 B) $2 \cdot 27$ C) $2 \cdot 29$ D) $2^2 \cdot 29$

Answer: C

109) 539

A) $7^3 \cdot 11$ B) $7 \cdot 11^2$ C) $7 \cdot 11$ D) $7^2 \cdot 11$

Answer: D

110) 60

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

Answer: C

111) 828

A) $3^4 \cdot 23$ B) $2^4 \cdot 23$ C) $2^3 \cdot 3^2 \cdot 23$ D) $2^2 \cdot 3^2 \cdot 23$

Answer: D

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112) 51

A) $3^2 \cdot 17$ B) $4 \cdot 19$ C) $16 \cdot 5$ D) $3 \cdot 17$

Answer: D

113) 1005

A) $5^2 \cdot 67$ B) $3^2 \cdot 67$ C) $15 \cdot 67$ D) $3 \cdot 5 \cdot 67$

Answer: D

114) 504

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

Answer: D

Simplify each fraction by reducing it to its lowest terms.

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

A) $\frac{1}{5}$ B) 5 C) $\frac{2}{5}$ D) $\frac{2}{10}$

Answer: A

116) $\frac{63}{18}$

A) $\frac{7}{2}$ B) $\frac{2}{7}$ C) $\frac{7}{18}$ D) $\frac{63}{2}$

Answer: A

117) $\frac{24}{32}$

A) $\frac{8}{4}$ B) $\frac{24}{32}$ C) $\frac{3}{4}$ D) $\frac{3}{8}$

Answer: C

118) $\frac{70}{84}$

A) $\frac{5}{14}$ B) $\frac{5}{6}$ C) $\frac{14}{6}$ D) $\frac{70}{84}$

Answer: B

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

A) 3 B) $\frac{1}{3}$ C) $\frac{6}{2}$ D) $\frac{3}{7}$

Answer: A

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120) $\frac{70}{80}$

A) $\frac{7}{10}$ B) $\frac{10}{8}$ C) $\frac{70}{80}$ D) $\frac{7}{8}$

Answer: D

121) $\frac{60}{140}$

A) $\frac{20}{7}$ B) $\frac{3}{7}$ C) $\frac{60}{140}$ D) $\frac{3}{20}$

Answer: B

122) $\frac{198}{66}$

A) 3 B) $\frac{33}{11}$ C) $\frac{3}{11}$ D) $\frac{18}{6}$

Answer: A

123) $\frac{33}{45}$

A) $\frac{3}{15}$ B) $\frac{11}{15}$ C) $\frac{33}{45}$ D) $\frac{11}{3}$

Answer: B

124) $\frac{48}{8}$

A) $\frac{3}{4}$ B) 6 C) $\frac{1}{6}$ D) $\frac{8}{48}$

Answer: B

125) $\frac{248}{403}$

A) $\frac{8}{13}$ B) $\frac{403}{248}$ C) $\frac{13}{8}$ D) $\frac{248}{403}$

Answer: A

Find the product.

126) $\frac{1}{4} \cdot \frac{1}{6}$

A) $\frac{2}{10}$ B) $\frac{1}{24}$ C) $\frac{2}{24}$ D) $\frac{1}{10}$

Answer: B

127) $\frac{5}{9} \cdot \frac{1}{9}$

A) $\frac{5}{81}$ B) $\frac{5}{18}$ C) $\frac{6}{18}$ D) $\frac{1}{81}$

Answer: A

128) $\frac{1}{14} \cdot \frac{9}{14}$

A) $\frac{81}{196}$ B) $\frac{9}{28}$ C) $\frac{9}{196}$ D) $\frac{10}{28}$

Answer: C

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

A) $\frac{5}{21}$ B) $\frac{3}{35}$ C) $\frac{1}{3}$ D) $\frac{35}{3}$

Answer: B

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

A) $\frac{2}{3}$ B) $\frac{5}{4}$ C) $\frac{9}{20}$ D) $\frac{20}{9}$

Answer: C

131) $\frac{6}{4} \cdot \frac{14}{12}$

A) $\frac{7}{4}$ B) 1 C) $\frac{5}{4}$ D) $\frac{9}{7}$

Answer: A

132) $\frac{1}{3} \cdot \frac{12}{23}$

A) $\frac{4}{23}$ B) 4 C) $\frac{23}{36}$ D) $\frac{36}{23}$

Answer: A

Multiply and express the product as a mixed number or an integer.

133) $2\frac{2}{5} \cdot 3\frac{3}{4}$

A) 11 B) 9 C) $6\frac{6}{20}$ D) 10

Answer: B

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134) $3\frac{3}{5} \cdot 1\frac{2}{3}$

A) 11 B) $3\frac{14}{15}$ C) 7 D) 6

Answer: D

135) $2\frac{4}{5} \cdot 2\frac{6}{7}$

A) 7 B) 2 C) 4 D) 8

Answer: D

Find the quotient

136) $\frac{1}{3} \div \frac{5}{6}$

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

Answer: A

137) $\frac{5}{6} \div \frac{7}{4}$

A) $\frac{24}{35}$ B) $\frac{10}{21}$ C) $\frac{21}{10}$ D) $\frac{35}{24}$

Answer: B

138) $\frac{2}{3} \div \frac{1}{9}$

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

Answer: D

139) $\frac{6}{11} \div 5$

A) $\frac{6}{11}$ B) $\frac{6}{55}$ C) $\frac{3}{8}$ D) $\frac{55}{6}$

Answer: B

140) $\frac{15}{2} \div 5$

A) 3 B) $\frac{75}{2}$ C) $\frac{2}{3}$ D) $\frac{3}{2}$

Answer: D

141) $28 \div \frac{4}{5}$

A) $\frac{1}{35}$ B) 7 C) $\frac{112}{5}$ D) 35

Answer: D

142) $30 \div \frac{5}{2}$

A) $\frac{1}{12}$ B) 6 C) 75 D) 12

Answer: D

143) $\frac{5}{13} \div \frac{35}{39}$

A) $\frac{175}{507}$ B) $\frac{15}{7}$ C) $\frac{3}{7}$ D) $\frac{7}{3}$

Answer: C

Find the quotient. If the quotient is an improper fraction, express it as a mixed number.

144) $3\frac{2}{7} \div 1\frac{5}{6}$

A) $1\frac{61}{76}$ B) $2\frac{61}{77}$ C) $1\frac{62}{77}$ D) $1\frac{61}{77}$

Answer: D

145) $4\frac{1}{4} \div 1\frac{1}{6}$

A) $4\frac{9}{14}$ B) $3\frac{9}{13}$ C) $3\frac{10}{14}$ D) $3\frac{9}{14}$

Answer: D

146) $2\frac{5}{7} \div 1\frac{3}{5}$

A) $2\frac{39}{56}$ B) $1\frac{39}{55}$ C) $1\frac{39}{56}$ D) $1\frac{40}{56}$

Answer: C

147) $1\frac{3}{4} \div 1\frac{1}{3}$

A) $1\frac{5}{15}$ B) $2\frac{5}{16}$ C) $1\frac{6}{16}$ D) $1\frac{5}{16}$

Answer: D

148) $3\frac{1}{9} \div \frac{1}{9}$

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

Answer: D

Perform the indicated operation or operations.

149) $\frac{2}{5} + \frac{1}{20}$

A) $\frac{3}{20}$ B) $\frac{23}{50}$ C) $\frac{9}{20}$ D) $\frac{3}{25}$

Answer: C

150) $\frac{1}{5} + \frac{1}{8}$

A) $\frac{13}{40}$ B) $\frac{7}{20}$ C) $\frac{1}{4}$ D) $\frac{2}{13}$

Answer: A

151) $\frac{1}{7} - \frac{1}{11}$

A) $\frac{4}{77}$ B) $\frac{1}{7}$ C) $\frac{4}{7}$ D) $\frac{1}{77}$

Answer: A

152) $\frac{3}{4} + \frac{3}{20}$

A) $\frac{3}{10}$ B) $\frac{9}{10}$ C) $\frac{3}{2}$ D) $\frac{1}{4}$

Answer: B

153) $\frac{5}{6} - \frac{2}{9}$

A) $\frac{11}{2}$ B) $\frac{1}{2}$ C) $\frac{1}{18}$ D) $\frac{11}{18}$

Answer: D

154) $\frac{7}{6} + \frac{7}{18}$

A) $\frac{14}{3}$ B) $\frac{14}{9}$ C) $\frac{7}{3}$ D) $\frac{7}{9}$

Answer: B

155) $\frac{3}{4} - \frac{3}{20}$

A) $\frac{3}{20}$ B) $\frac{3}{5}$ C) 0 D) 3

Answer: B

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156) $\frac{11}{15} - \frac{2}{25}$

A) $\frac{9}{25}$ B) $\frac{49}{75}$ C) $\frac{9}{10}$ D) $\frac{1}{5}$

Answer: B

157) $\frac{5}{8} - \frac{1}{24}$

A) $\frac{1}{4}$ B) $\frac{2}{3}$ C) $\frac{7}{12}$ D) $\frac{1}{6}$

Answer: C

158) $\frac{8}{25} - \frac{1}{20}$

A) $\frac{135}{500}$ B) $\frac{27}{100}$ C) $\frac{7}{25}$ D) $\frac{7}{100}$

Answer: B

159) $\frac{2}{3} + \frac{1}{12}$

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

Answer: C

160) $\frac{2}{5} + \frac{1}{10}$

A) $\frac{1}{2}$ B) $\frac{1}{5}$ C) $\frac{3}{10}$ D) 1

Answer: A

161) $\frac{1}{12} + \frac{5}{9}$

A) $\frac{1}{6}$ B) $\frac{23}{36}$ C) $\frac{1}{2}$ D) $\frac{2}{9}$

Answer: B

Add or subtract, as indicated.

162) $20\frac{5}{6} + 18\frac{1}{9}$

A) $37\frac{17}{18}$ B) $38\frac{17}{18}$ C) $20\frac{17}{18}$ D) $39\frac{17}{18}$

Answer: B

163) $17\frac{1}{2} + 9\frac{1}{9}$

A) $27\frac{11}{18}$ B) $26\frac{11}{18}$ C) $25\frac{11}{18}$ D) $17\frac{11}{18}$

Answer: B

164) $6\frac{9}{10} + 3\frac{5}{6}$

A) $10\frac{2}{15}$ B) $9\frac{7}{15}$ C) $10\frac{1}{15}$ D) $10\frac{11}{15}$

Answer: D

165) $4\frac{5}{18} - 2\frac{1}{12}$

A) $1\frac{7}{36}$ B) $2\frac{1}{4}$ C) $2\frac{7}{36}$ D) $2\frac{1}{9}$

Answer: C

166) $16\frac{5}{7} - 2\frac{1}{2}$

A) $14\frac{9}{14}$ B) $10\frac{3}{7}$ C) $14\frac{3}{14}$ D) $13\frac{9}{14}$

Answer: C

167) $20\frac{2}{7} - \frac{11}{35}$

A) $20\frac{34}{35}$ B) 19 C) $18\frac{34}{35}$ D) $19\frac{34}{35}$

Answer: D

168) $38\frac{2}{3} - 25\frac{13}{16}$

A) $13\frac{41}{48}$ B) $12\frac{41}{48}$ C) 12 D) $11\frac{41}{48}$

Answer: B

169) $15\frac{5}{16} - 6\frac{3}{8}$

A) $8\frac{15}{16}$ B) 8 C) $9\frac{13}{16}$ D) $7\frac{15}{16}$

Answer: A

170) $12 - 9\frac{4}{7}$

A) $3\frac{3}{7}$ B) $3\frac{4}{7}$ C) $2\frac{3}{7}$ D) $11\frac{3}{7}$

Answer: C

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171) $1\frac{1}{6} + 3\frac{1}{12} + 2\frac{1}{3}$

A) $6\frac{1}{6}$ B) $6\frac{17}{12}$ C) $7\frac{7}{12}$ D) $6\frac{7}{12}$

Answer: D

Use the order of operations to simplify the expression.

172) $\left(\frac{3}{4} + \frac{3}{4}\right) \cdot \frac{2}{11}$

A) $\frac{10}{19}$ B) $\frac{12}{11}$ C) $\frac{3}{11}$ D) $\frac{5}{22}$

Answer: C

173) $\frac{2}{5} \cdot \left(\frac{5}{9} - \frac{1}{9}\right)$

A) $\frac{1}{9}$ B) $\frac{16}{27}$ C) $\frac{8}{27}$ D) $\frac{8}{45}$

Answer: D

174) $\left(\frac{5}{7} - \frac{5}{14}\right) \div \frac{5}{11}$

A) $\frac{25}{154}$ B) $\frac{5}{14}$ C) $\frac{14}{11}$ D) $\frac{11}{14}$

Answer: D

175) $\frac{5}{6} \div \frac{1}{3} - \frac{1}{4} \cdot \frac{4}{5}$

A) $2\frac{3}{10}$ B) $1\frac{4}{5}$ C) $2\frac{1}{4}$ D) $6\frac{1}{4}$

Answer: A

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

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

Answer: B

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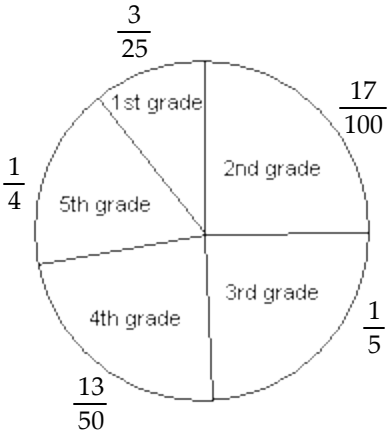
Solve the problem.

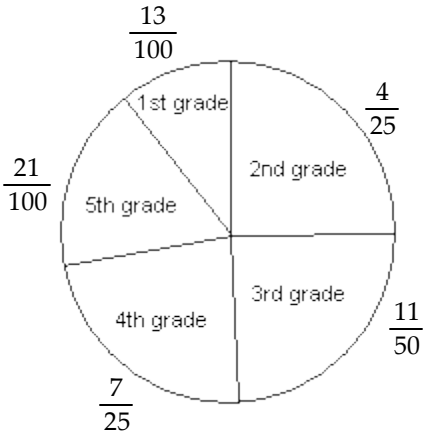
177) The circle graph shows the fraction of books read by students in grades one through five. What fraction of books was read by students in fourth and third grades combined?



A) $\frac{23}{50}$ of books B) $\frac{4}{5}$ of books C) $\frac{27}{50}$ of books D) $\frac{37}{50}$ of books

Answer: A

178) The circle graph shows the fraction of books read by students in grades one through five. What fraction of books was read by students in grades other than third and first?



A) $\frac{39}{50}$ of books B) $\frac{7}{20}$ of books C) $\frac{13}{20}$ of books D) $\frac{87}{100}$ of books

Answer: C

Identify the place value of the digit 5 in the decimal number.

179) 96.546

A) tenths B) thousandths C) ones D) hundredths

Answer: A

180) 304.251

A) tenths B) hundredths C) thousandths D) thousands

Answer: B

181) 8.98501

A) thousandths B) tenths C) hundredths D) thousands

Answer: A

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182) 15.934

A) tenths B) thousands C) ones D) hundredths

Answer: C

183) 7507.99

A) hundredths B) hundreds C) thousands D) thousandths

Answer: B

184) 195,309.96

A) thousandths B) hundreds C) hundredths D) thousands

Answer: D

185) 8.727052

A) hundredths B) hundred–thousandths
C) ten–thousands D) thousandths

Answer: B

Write the decimal in word form.

186) 1.6

A) one and six thousandths B) one and six hundredths
C) one and six tenths D) one and six millionths

Answer: C

187) 4.24

A) four and twenty–four thousandths B) four and twenty–four millionths
C) four and twenty–four hundredths D) four and twenty–four tenths

Answer: C

188) 4.138

A) four and one hundred thirty–eight millionths B) four and one hundred thirty–eight thousandths
C) four and one hundred thirty–eight hundredths D) four and one hundred thirty–eight tenths

Answer: B

189) 9.00623

A) nine and six hundred twenty–three tenths
B) nine and six hundred twenty–three thousandths
C) nine and six hundred twenty–three millionths
D) nine and six hundred twenty–three hundred–thousandths

Answer: D

190) 58.4

A) fifty–eight and four tenths B) fifty–eight and four hundredths
C) fifty–eight and four millionths D) fifty–eight and four thousandths

Answer: A

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191) 996.07
A) nine hundred and ninety–six and seven tenths
B) nine hundred ninety–six and seven thousandths
C) nine hundred and ninety–six and seven hundredths
D) nine hundred ninety–six and seven hundredths
Answer: D

192) 115.087
A) one hundred and fifteen and eighty–seven hundredths
B) one hundred fifteen and eighty–seven ten–thousandths
C) one hundred fifteen and eighty–seven thousandths
D) one hundred and fifteen and eighty–seven thousandths
Answer: C

193) 300.049
A) three hundred and forty–nine thousandths
B) three hundred and forty–nine hundredths
C) three hundred forty–nine hundredths
D) three hundred forty–nine thousandths
Answer: A

194) 0.083
A) eighty–three hundredths
B) eighty–three ten–thousandths
C) eighty–three hundred–thousandths
D) eighty–three thousandths
Answer: D

Write the decimal in standard form.

195) Three and fifteen hundredths
A) 315
B) 3.015
C) 3.0015
D) 3.15
Answer: D

196) Fourteen and three hundred twenty–four thousandths
A) 14.0324
B) 0.14324
C) 14,324
D) 14.324
Answer: D

197) Twenty–one hundredths
A) 0.021
B) 21
C) 20.1
D) 0.21
Answer: D

198) Eight hundred eighty–eight thousandths
A) 0.888
B) 0.00888
C) 800.88
D) 0.0888
Answer: A

199) Twelve and one hundred nineteen ten–thousandths
A) 12.00119
B) 0.120119
C) 12.119
D) 12.0119
Answer: D

200) Fourteen and seven tenths
A) 0.17
B) 1.7
C) 14.7
D) 0.147
Answer: C

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201) Five hundred and five hundredths

A) 500.05 B) 50.5 C) 0.505 D) 505.0

Answer: A

Write the decimal as a fraction or a mixed number. Express your answer in simplest form.

202) 0.5

A) $\frac{5}{100}$ B) $\frac{1}{2}$ C) $\frac{5}{10}$ D) $\frac{1}{10}$

Answer: B

203) 0.22

A) $\frac{11}{50}$ B) $\frac{11}{500}$ C) $\frac{1}{484}$ D) $\frac{1}{22}$

Answer: A

204) 0.98

A) $\frac{1}{98}$ B) $\frac{49}{500}$ C) $\frac{49}{50}$ D) $\frac{1}{9604}$

Answer: C

205) 0.154

A) $\frac{77}{500}$ B) $\frac{1}{23,716}$ C) $\frac{77}{50}$ D) $\frac{1}{154}$

Answer: A

206) 0.44

A) $\frac{11}{2}$ B) $\frac{1}{440}$ C) $\frac{11}{25}$ D) $\frac{1}{193,600}$

Answer: C

207) 1.01

A) $1\frac{1}{100}$ B) 1 C) $\frac{1}{1000}$ D) $\frac{1}{100}$

Answer: A

208) 2.4

A) $\frac{6}{25}$ B) $2\frac{2}{5}$ C) $1\frac{2}{5}$ D) $\frac{12}{5}$

Answer: B

209) 48.002

A) $48\frac{1}{500}$ B) $96\frac{1}{250}$ C) $9\frac{1501}{2500}$ D) $\frac{24001}{50}$

Answer: A

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210) 34.18

A) $34\frac{9}{50}$ B) 3418 C) $341\frac{4}{5}$ D) $3\frac{209}{500}$

Answer: A

211) –0.006

A) $-\frac{3}{5}$ B) $-\frac{3}{100}$ C) $-\frac{3}{50}$ D) $-\frac{3}{500}$

Answer: D

Round the decimal to the given place value.

212) 10.232 to the nearest tenth

A) 10.3 B) 10.23 C) 10.1 D) 10.2

Answer: D

213) 1.8792 to the nearest tenth

A) 2.0 B) 1.8 C) 1.88 D) 1.9

Answer: D

214) 1.853 to the nearest hundredth

A) 1.86 B) 1.85 C) 1.84 D) 1.9

Answer: B

215) 12.6575 to the nearest hundredth

A) 12.66 B) 12.658 C) 12.657 D) 12.67

Answer: A

216) –7.836 to the nearest tenth

A) –7.7 B) –7.9 C) –7.836 D) –7.8

Answer: D

217) 19.79656 to the nearest hundredth

A) 19.7966 B) 19.797 C) 19.80 D) 19.81

Answer: C

218) 1.5644 to the nearest thousandth

A) 1.564 B) 1.55 C) 1.565 D) 1.56

Answer: A

219) –7.26 to the nearest tenth

A) –7.2 B) –7.3 C) –7.26 D) –7.4

Answer: B

220) 89.8738 to the nearest thousandth

A) 89.874 B) 89.87 C) 89.875 D) 89.873

Answer: A

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221) 3.87585 to the nearest ten–thousandth

A) 3.875 B) 3.876 C) 3.8759 D) 3.877

Answer: C

222) –720.853 to the nearest whole number

A) –720 B) –721 C) –720.85 D) –720.9

Answer: B

223) 571.53088 to the nearest ten

A) 570 B) 560 C) 600 D) 571.5

Answer: A

224) 7.213 to the nearest hundredth

A) 7.213 B) 7.2 C) 7.21 D) 7.22

Answer: C

225) –11.191 to the nearest hundredth

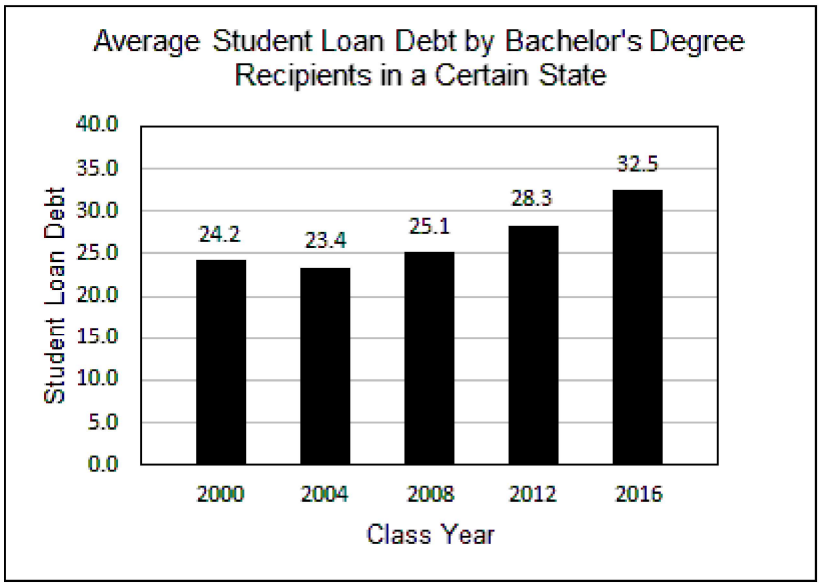
A) –11.19 B) –11.190 C) –11 D) –11.2

Answer: A

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Provide an appropriate response.

226) The bar graph shows the average student loan debt, in thousands of dollars, carried by bachelor's degree recipients for five selected class years in a certain state.



The mathematical model that approximates the data displayed by the bar graph is $D = 0.6n + 22.5$, where D is the average student loan debt, in thousands of dollars, and n is the number of class years after 2000.

a) According to the mathematical model, what was the average student loan debt, in thousands of dollars, for the 2016 class year?

b) Does your answer in part (a) underestimate or overestimate the average student loan debt shown by the bar graph? By how much, expressed as a decimal in thousands of dollars?

c. Write the average student loan debt shown by the bar graph for the class of 2016 in standard form.

Answer: a) \$32.1 thousand, b) underestimates by \$0.4 thousand, c) \$32,500

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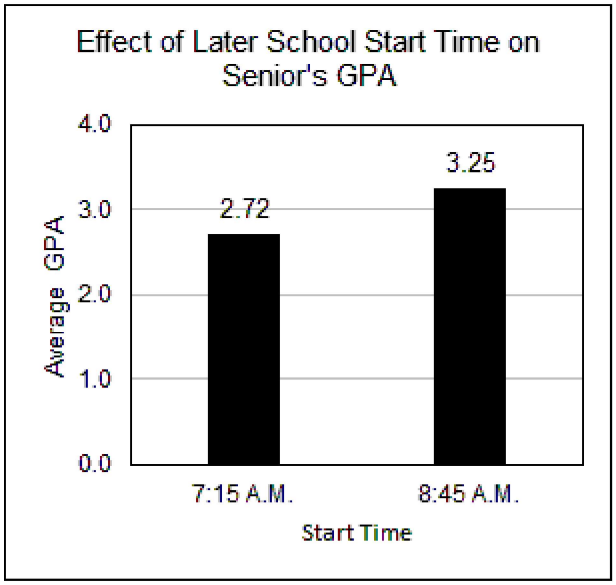
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

227) Smithville High School switched to a later start time last school year. The bar graph shows how the change affected the average GPA for the high school's seniors.



How much higher was the average GPA for seniors with a later start time?

A) 1.5 B) 0.53 C) 1.47 D) 0.47

Answer: B

Find the sum.

228) 5.53 + 0.91

A) 6.52 B) 6.36 C) 6.44 D) 4.62

Answer: C

229) 73.24 + 86.23

A) 151.23 B) 167.71 C) 159.47 D) 6315.4852

Answer: C

230) 1.833 + 6.3

A) 8.134 B) 8.133 C) 8.243 D) 8.123

Answer: B

231) 275.37 + 6.96

A) 282.32 B) 282.22 C) 282.23 D) 282.33

Answer: D

232) 6.9 + 5.48

A) 12.48 B) 1.42 C) 13.39 D) 12.38

Answer: D

233) 7.5 + 1.23

A) 8.523 B) 1.98 C) 8.28 D) 8.73

Answer: D

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234) 7.144 + 11.83
A) 18.974 B) 18.950 C) 19.130 D) 18.227
Answer: A

235) 3.293 + 18.496 + 142.39
A) 164.179 B) 164.069 C) 164.169 D) 164.079
Answer: A

236) 102.48 + 71.83 + 32.907
A) 207.227 B) 207.217 C) 208.217 D) 207.317
Answer: B

Find the difference and check.

237) 9.01 – 5.47
A) 3.54 B) 5 C) 4.54 D) 3.64
Answer: A

238) 17.2 – 3.47
A) 20.67 B) 21.67 C) 13.83 D) 13.73
Answer: D

239) 6.883 – 6.36
A) 0.623 B) 0.523 C) 0.533 D) 0.522
Answer: B

240) 96 – 3.44
A) 95.656 B) 92.956 C) 92.56 D) 6.16
Answer: C

241) 511.33 – 32.6
A) 488.73 B) 479.73 C) 480 D) 478.73
Answer: D

242) 19.01 – 10.706
A) 8.404 B) 30.716 C) 29.716 D) 8.304
Answer: D

243) 14.966 – 12.815
A) 2.151 B) 27.781 C) 2.351 D) 2.251
Answer: A

244) 4.2 – 1.452
A) 2.852 B) 3.748 C) 4.000 D) 2.748
Answer: D

245) 19.8 – 18.68
A) 1.22 B) 39.48 C) 1.12 D) 38.48
Answer: C

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Find the product.

246) 0.05 × 0.2
A) 0.01 B) 0.001 C) 0.1 D) 1
Answer: A

247) 65.7 × 9.9
A) 650.54 B) 650.43 C) 75.6 D) 651.53
Answer: B

248) 0.451 × 8
A) 3.608 B) 3 C) 8.451 D) 8
Answer: A

249) 0.287 × 462
A) 132.694 B) 132.594 C) 132.705 D) 132.704
Answer: B

250) 15.36 × 0.0089
A) 0.236704 B) 0.146704 C) 0.136704 D) 0.126704
Answer: C

251) 0.0032 × 5.5
A) 0.000176 B) 0.00176 C) 0.0176 D) 0.176
Answer: C

252) 2.2 × 3.65
A) 0.0803 B) 80.3 C) 0.803 D) 8.03
Answer: D

253) 9.56 × 75.87
A) 7253.172 B) 725.3172 C) 72.53172 D) 72,531.72
Answer: B

254) 10.4 × 12.97
A) 13,488.8 B) 1348.88 C) 13.4888 D) 134.888
Answer: D

255) 0.035 × 0.14
A) 0.49 B) 0.000049 C) 0.00049 D) 0.0049
Answer: D

256) 0.507 × 0.09
A) 4.563 B) 0.04563 C) 0.004563 D) 0.0004563
Answer: B

257) (16.9)(−1.62)
A) −0.27378 B) −273.78 C) −2.7378 D) −27.378
Answer: D

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Find the quotient and check.

258) $3.4 \div 17$

A) 2 B) 1.2 C) 12 D) 0.2

Answer: D

259) $6.36 \div 6$

A) 20.6 B) 1.06 C) 2.06 D) 10.6

Answer: B

260) $1.8 \div 3$

A) 6 B) 0.6 C) 1.6 D) 16

Answer: B

261) $5.88 \div (6)$

A) 1.98 B) 9.8 C) 19.8 D) 0.98

Answer: D

262) $11.5 \div 23$

A) 1.5 B) 5 C) 0.5 D) 15

Answer: C

263) $81.92 \div 8$

A) 10.44 B) −10.44 C) 10.24 D) 10.33

Answer: C

264) $(9.5) \div (-10)$

A) −9.5 B) 9.05 C) −0.95 D) 90.5

Answer: C

265) $7.272 \div 8$

A) 9.09 B) 0.909 C) 19.09 D) 1.909

Answer: B

Find the quotient and write the repeating decimal with a bar over the repeating digit or digits.

266) $5.0 \div 3$

A) $1.\overline{60}$ B) $1.\overline{6}$ C) 1.6 D) 1.66

Answer: B

267) $0.79 \div 11$

A) $0.07\overline{181}$ B) 0.0718 C) $0.07\overline{18}$ D) $0.7\overline{18}$

Answer: C

Find the quotient. If the quotient is a repeating decimal, write the answer with a bar over the repeating digit or digits.

268) $4.83 \div 15$

A) 0.0322 B) 0.322 C) 0.0222 D) 0.222

Answer: B

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269) $0.85 \div 0.01$

A) 74 B) 8.5 C) 85 D) 86

Answer: C

270) $31.2 \div 8.0$

A) 39 B) 3.9 C) 0.39 D) 4.9

Answer: B

271) $342 \div 12.0$

A) 28.5 B) 2.85 C) 285 D) 29.5

Answer: A

272) $1.2 \div 0.4$

A) 30 B) 3 C) 0.8 D) 8

Answer: B

273) $18 \div 0.3$

A) 6000 B) 6 C) 600 D) 60

Answer: D

274) $1.68 \div 5$

A) 4.36 B) 3.36 C) 0.336 D) 0.436

Answer: C

275) $786 \div 20.0$

A) 3.93 B) 40.3 C) 39.3 D) 393

Answer: C

276) $0.65 \div 0.01$

A) 66 B) 54 C) 6.5 D) 65

Answer: D

277) $48.19 \div 7.9$

A) 0.61 B) 7.1 C) 61 D) 6.1

Answer: D

278) $0.72 \div 0.008$

A) 9 B) 0.9 C) 0.09 D) 90

Answer: D

279) $4.9 \div 0.07$

A) 0.07 B) 70 C) 0.7 D) 7

Answer: B

280) $334.4 \div 22.0$

A) 15.2 B) 152 C) 16.2 D) 1.52

Answer: A

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281) $8 \div 3.0$

A) 2.6 B) $2.\overline{6}$ C) $2.\overline{60}$ D) 2.66

Answer: B

282) $10 \div 0.05$

A) 0.2 B) 20 C) 2 D) 200

Answer: D

283) $546 \div 39.0$

A) 14.0 B) 1.4 C) 15 D) 140

Answer: A

284) $16.5 \div 4.95$

A) 3.6 B) $3.\overline{6}$ C) 3.3 D) $3.\overline{3}$

Answer: D

285) $0.0608 \div 0.019$

A) 3.2 B) 3.3 C) 33 D) 32

Answer: A

286) $4.24 \div (-0.8)$

A) −5.3 B) 47 C) 4.7 D) −53

Answer: A

287) $(-0.09164) \div (-0.029)$

A) −31.6 B) −316 C) 3.16 D) 0.316

Answer: C

Find the quotient rounded to the nearest tenth.

288) $44.25 \div (-7.5)$

A) −59.0 B) −5.9 C) −6.9 D) −0.6

Answer: B

289) $4.23 \div 0.76$

A) 55.7 B) 5.6 C) 0.2 D) 6.1

Answer: B

Find the quotient rounded to the nearest hundredth.

290) $(-7.11) \div 0.092$

A) −7.73 B) −77.78 C) −77.28 D) −7.78

Answer: C

291) $(-2.239) \div (-2.9)$

A) 0.13 B) 0.08 C) 1.27 D) 0.77

Answer: D

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Solve the problem.

292) What is the cost, in dollars, of 25.6 gallons of gasoline at 123.6 cents per gallon? Round your answer to the nearest cent.

A) $32.64 B) $317.42 C) $316.42 D) $31.64

Answer: D

293) Andrea's sleeping bag is designed for camping in temperatures of 10°C or warmer. Use the equation F = 1.8C + 32 to determine for what Fahrenheit temperatures is her sleeping bag designed. Round to the nearest tenth of a degree.

A) 26.4° F or warmer B) 43.6° F or warmer C) 50.0° F or warmer D) 75.6° F or warmer

Answer: C

294) A restaurant bill of $67.92 was shared equally by 6 people. How much was each person's share? Round to the nearest cent.

A) $11.43 B) $12.43 C) $11.32 D) $12.32

Answer: C

295) There are approximately 3.28 feet in 1 meter. How many meters are there in 55 feet? Round to the nearest hundredth.

A) 16.77 m B) 5.96 m C) 1.68 m D) 0.06 m

Answer: A

296) Elizabeth has 5.4 gigabytes of free space on a memory stick to store files. If each of her files uses 0.06 gigabyte of memory, how many files can Elizabeth store on the memory stick?

A) 5.34 files B) 90 files C) 53.4 files D) 9 files

Answer: B

Express the number as an equivalent decimal. Use bar notation for repeating decimals.

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

A) 0.14 B) 0.25 C) 0.34 D) 0.24

Answer: B

298) $-\frac{2}{5}$

A) −0.4 B) −0.2 C) −0.25 D) −0.04

Answer: A

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

A) 0.75 B) 0.8 C) 0.075 D) 0.6

Answer: A

300) $\frac{98}{100}$

A) 0.98 B) 0.098 C) 9.8 D) 0.87

Answer: A

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

A) 0.313 B) 0.2125 C) 0.3125 D) 0.3225

Answer: C

302) $\frac{6}{20}$

A) 0.3 B) 0.4 C) 0.2 D) 0.35

Answer: A

303) $\frac{11}{25}$

A) 0.44 B) 0.36 C) 0.24 D) 0.5

Answer: A

304) $\frac{9}{40}$

A) 0.125 B) 0.235 C) 0.185 D) 0.225

Answer: D

305) $\frac{54}{125}$

A) 0.432 B) 0.382 C) 0.532 D) 0.452

Answer: A

306) $-\frac{107}{200}$

A) −0.495 B) −0.546 C) −0.526 D) −0.535

Answer: D

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

A) 1.8 B) 1.7 C) 1.6 D) 1.65

Answer: A

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

A) 2.125 B) 2.15 C) 2.25 D) 1.75

Answer: C

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

A) 1.025 B) 1.15 C) 1.125 D) 1.05

Answer: C

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310) $\frac{23}{16}$

A) 1.4375 B) 1.38375 C) 1.75 D) 1.425

Answer: A

311) $-\frac{33}{20}$

A) −1.625 B) −1.65 C) −1.675 D) −1.6

Answer: B

312) $\frac{77}{25}$

A) 3.04 B) 3.85 C) 3.08 D) 3.075

Answer: C

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

A) 1.175 B) 1.125 C) 1.1625 D) 1.1875

Answer: A

314) $\frac{97}{40}$

A) 2.4125 B) 2.4375 C) 2.475 D) 2.425

Answer: D

315) $\frac{392}{125}$

A) 3.124 B) 3.136 C) 3.145 D) 3.12

Answer: B

316) $\frac{317}{200}$

A) 2.125 B) 1.595 C) 1.575 D) 1.585

Answer: D

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

A) $0.\overline{50}$ B) $0.\overline{51}$ C) $0.0\overline{5}$ D) $0.\overline{5}$

Answer: D

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

A) $0.7\overline{1}$ B) $0.7\overline{6}$ C) $0.6\overline{3}$ D) $0.7\overline{3}$

Answer: D

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

A) $0.142\overline{857}$ B) $0.\overline{146857}$ C) $0.143\overline{357}$ D) $0.\overline{142857}$

Answer: D

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

A) $0.3\overline{6}$ B) $0.\overline{39}$ C) $0.3\overline{9}$ D) $0.\overline{36}$

Answer: D

321) $-\frac{13}{11}$

A) $-1.\overline{18}$ B) $-1.\overline{20}$ C) $-1.1\overline{8}$ D) $-1.2\overline{0}$

Answer: A

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

A) $0.59\overline{0}$ B) $0.\overline{583}$ C) $0.58\overline{3}$ D) $0.\overline{590}$

Answer: C

323) $2\frac{1}{20}$

A) $2.\overline{5}$ B) $2.0\overline{5}$ C) 2.05 D) $2.\overline{055}$

Answer: C

324) $10\frac{1}{2}$

A) 10.5 B) 1.5 C) 21 D) 2.75

Answer: A

325) $-8\frac{1}{2}$

A) −8.5 B) −3.5 C) −1.5 D) −17

Answer: A

Find a decimal approximation for the fraction or mixed number, rounded to the given place.

326) $\frac{8}{15}$; Round to the nearest tenth.

A) 0.4 B) 0.6 C) 0.5 D) 0.3

Answer: C

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327) $\frac{32}{7}$; Round to the nearest tenth.

A) 3.6 B) 4.57 C) 4.6 D) 0.2

Answer: C

328) $\frac{47}{11}$; Round to the nearest tenth.

A) 4.27 B) 5.3 C) 0.2 D) 4.3

Answer: D

329) $\frac{4}{15}$; Round to the nearest hundredth.

A) 0.24 B) 0.28 C) 0.27 D) 0.67

Answer: C

330) $\frac{3}{11}$; Round to the nearest hundredth.

A) 0.26 B) 0.28 C) 0.29 D) 0.27

Answer: D

331) $\frac{8}{9}$; Round to the nearest hundredth.

A) 1.13 B) 0.88 C) 0.89 D) 0.889

Answer: C

332) $\frac{9}{11}$; Round to the nearest hundredth.

A) 0.818 B) 1.22 C) 0.81 D) 0.82

Answer: D

333) $\frac{7}{11}$; Round to the nearest hundredth.

A) 0.636 B) 1.57 C) 0.64 D) 0.63

Answer: C

334) $\frac{3}{11}$; Round to the nearest thousandth.

A) 0.275 B) 0.274 C) 0.273 D) 0.272

Answer: C

335) $\frac{13}{15}$; Round to the nearest thousandth.

A) 0.864 B) 0.868 C) 0.867 D) 0.667

Answer: C

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336) $1\frac{5}{11}$; Round to the nearest tenth.

A) 2.5 B) 0.7 C) 1.45 D) 1.5

Answer: D

Solve the problem.

337) A farmer is supposed to add 7.6 grams of supplement to the feed mix for his chickens. Instead, he adds 7.06 grams of supplement. Did he add too much or too little? What was the difference?

A) Too little; 1.54 grams B) Too much; 1.54 grams
C) Too little; 0.54 grams D) Too much; 0.54 grams

Answer: C

338) The instructions for a bookcase assembly kit said that the fasteners enclosed were 2.3 inches long. When measured, they were 2.35 inches long. Were the fasteners too long or too short? What was the difference?

A) Too long; 0.05 inch B) Too long; 0.15 inch C) Too short; 0.15 inch D) Too short; 0.05 inch

Answer: A

339) Jonathan estimated his GPA would be 3.72. When grades came out, he saw that his GPA was 3.65. Did he receive better grades than his estimate or worse?

A) Better B) Worse

Answer: B

340) In a survey of 100 people, 19 preferred relish on their hot dogs. What percent preferred relish?

A) 0.19% B) 1.9% C) 19% D) $\frac{19}{100}$%

Answer: C

341) In a survey of 100 people, 26 preferred caramel syrup on their ice cream. What percent preferred caramel syrup?

A) $\frac{13}{50}$% B) 74% C) $\frac{37}{50}$% D) 26%

Answer: D

342) A basketball player made 60 out of 100 attempted free throws. What percent of free throws was made?

A) 60% B) 0.6% C) $\frac{3}{5}$% D) 6%

Answer: A

343) A dart player made 47 bull's eyes out of 100 attempted throws. What percent of the throws were bull's eyes?

A) $\frac{53}{100}$% B) $\frac{47}{100}$% C) 47% D) 53%

Answer: C

344) A dart player made 32 bull's eyes out of 100 attempted throws. What percent of the throws were not bull's eyes?

A) $\frac{8}{25}$% B) $\frac{17}{25}$% C) 68% D) 32%

Answer: C

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Express the percent as a decimal.

345) 84%

A) 0.084 B) 84.0 C) 0.84 D) 8.4

Answer: C

346) 6%

A) 60.0 B) 0.06 C) 0.6 D) 6

Answer: B

347) 100%

A) 0.1 B) 0.01 C) 1 D) 100

Answer: C

348) 70%

A) 0.07 B) 7 C) 70.0 D) 0.7

Answer: D

349) 67%

A) 0.67 B) 6.7 C) 0.067 D) 67

Answer: A

350) 34.9%

A) 34.9 B) 0.0349 C) 3.49 D) 0.349

Answer: D

351) 6.6%

A) 6.6 B) 0.66 C) 0.066 D) 66.0

Answer: C

352) $79\frac{9}{10}\%$

A) 79.9 B) 7.99 C) 0.799 D) 0.0799

Answer: C

353) 600%

A) 60 B) 600 C) 0.6 D) 6

Answer: D

354) 51.65%

A) 51.65 B) 0.5165 C) 5.165 D) 0.05165

Answer: B

Express the decimal as a percent.

355) 6.5

A) 650% B) 65% C) 0.65% D) 0.0065%

Answer: A

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356) 7

A) 70% B) 0.07% C) 0.7% D) 700%

Answer: D

357) 0.009

A) 0.09% B) 9% C) 0.009% D) 0.9%

Answer: D

358) 0.22

A) 2.2% B) 22% C) 0.022% D) 220%

Answer: B

359) 0.073

A) 0.073% B) 73% C) 7.3% D) 0.73%

Answer: C

360) 0.8133

A) 8133% B) 8.133% C) 81.33% D) 0.8133%

Answer: C

361) 9.00

A) 90% B) 0.09% C) 0.9% D) 900%

Answer: D

362) 0.9

A) 900% B) 0.09% C) 90% D) 0.9%

Answer: C

Express the percent as a fraction or mixed number in simplest form.

363) 90%

A) 9 B) $\frac{9}{5}$ C) $\frac{9}{20}$ D) $\frac{9}{10}$

Answer: D

364) 3%

A) $\frac{3}{100}$ B) $\frac{3}{10}$ C) 3 D) $\frac{3}{1000}$

Answer: A

365) 0.6%

A) $\frac{3}{500}$ B) $\frac{3}{1000}$ C) $\frac{3}{50}$ D) $\frac{3}{250}$

Answer: A

366) $\frac{1}{7}$%

A) $\frac{1}{1400}$ B) $\frac{1}{700}$ C) $\frac{1}{350}$ D) $\frac{1}{70}$

Answer: B

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367) 900%

A) 9000 B) 900 C) 9 D) 90

Answer: C

368) $\frac{1}{5}$%

A) 2 B) $\frac{1}{5}$ C) $\frac{1}{10}$ D) $\frac{1}{500}$

Answer: D

369) 40%

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

Answer: C

370) 2.5%

A) $2\frac{1}{20}$ B) $\frac{1}{40}$ C) $2\frac{1}{2}$ D) $\frac{25}{100}$

Answer: B

371) 370%

A) 37 B) $3\frac{7}{10}$ C) $1\frac{17}{20}$ D) $7\frac{2}{5}$

Answer: B

372) 6.25%

A) $\frac{1}{16}$ B) $6\frac{1}{16}$ C) $6\frac{1}{4}$ D) $\frac{1}{15}$

Answer: A

373) 375%

A) $7\frac{1}{2}$ B) $3\frac{3}{4}$ C) $\frac{3}{20}$ D) $37\frac{1}{2}$

Answer: B

374) $13\frac{2}{3}$%

A) $\frac{41}{300}$ B) $136\frac{2}{3}$ C) $6\frac{5}{6}$ D) $1366\frac{2}{3}$

Answer: A

375) $46\frac{7}{8}$%

A) $\frac{16}{75}$ B) $23\frac{7}{16}$ C) $\frac{15}{32}$ D) $\frac{15}{16}$

Answer: C

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Express the fraction or mixed number as a percent.

376) $\frac{45}{100}$

A) 45% B) 450% C) 0.45% D) 4.5%

Answer: A

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

A) 0.8% B) 800% C) 8% D) 80%

Answer: D

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

A) $8\frac{1}{3}\%$ B) $83\frac{1}{3}\%$ C) $\frac{5}{6}\%$ D) $\frac{1}{120}\%$

Answer: B

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

A) 94% B) $93\frac{3}{4}\%$ C) 95% D) $95\frac{3}{4}\%$

Answer: B

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

A) 74.1% B) 180% C) 133.3% D) 13.3%

Answer: C

381) $\frac{33}{100}$

A) 33% B) 16.5% C) 3.3% D) 1000%

Answer: A

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

A) $1\frac{3}{7}\%$ B) 70% C) 7% D) $14\frac{2}{7}\%$

Answer: D

383) $\frac{29}{90}$

A) $3\frac{2}{9}\%$ B) $31\frac{1}{29}\%$ C) $3\frac{3}{29}\%$ D) $32\frac{2}{9}\%$

Answer: D

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384) $\frac{363}{500}$

A) $13\frac{281}{363}\%$ B) $1\frac{137}{363}\%$ C) $7\frac{13}{50}\%$ D) $72\frac{3}{5}\%$

Answer: D

385) $4\frac{1}{8}$

A) $41\frac{1}{4}\%$ B) $412\frac{1}{2}\%$ C) $4\frac{1}{8}\%$ D) $62\frac{1}{2}\%$

Answer: B

386) $7\frac{3}{10}$

A) 730% B) 0.73% C) 7.3% D) 73%

Answer: A

Express the fraction as a percent. Round your answer to the nearest hundredth of a percent.

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

A) 44.4% B) 4.44% C) 4.444% D) 44.44%

Answer: D

Perform conversions between percents, decimals, and fractions to complete chart. Write any repeating decimals with as few digits as possible.

388)

percent	decimal	fraction
		$\frac{5}{6}$

A)

percent	decimal	fraction
$56.\overline{6}\%$	$0.5\overline{6}$	$\frac{5}{6}$

B)

percent	decimal	fraction
$83.\overline{83}\%$	$0.\overline{83}$	$\frac{5}{6}$

C)

percent	decimal	fraction
$83.\overline{3}\%$	$0.8\overline{3}$	$\frac{5}{6}$

D)

percent	decimal	fraction
$8.\overline{3}\%$	$0.08\overline{3}$	$\frac{5}{6}$

Answer: C

389)

percent	decimal	fraction
	0.5	

A)

percent	decimal	fraction
50%	0.5	$\frac{5}{12}$

B)

percent	decimal	fraction
5%	0.5	$\frac{5}{12}$

C)

percent	decimal	fraction
50%	0.5	$\frac{1}{2}$

D)

percent	decimal	fraction
5%	0.5	$\frac{1}{2}$

Answer: C

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390)

percent	decimal	fraction
19.6%		

A)

percent	decimal	fraction
19.6%	1.96	$\frac{49}{250}$

B)

percent	decimal	fraction
19.6%	0.196	$\frac{24}{125}$

C)

percent	decimal	fraction
19.6%	0.196	$\frac{49}{250}$

D)

percent	decimal	fraction
19.6%	1.96	$\frac{24}{125}$

Answer: C

391)

percent	decimal	fraction
	0.44	

A)

percent	decimal	fraction
4.4%	0.44	$\frac{11}{25}$

B)

percent	decimal	fraction
4.4%	0.44	$\frac{2}{5}$

C)

percent	decimal	fraction
44%	0.44	$\frac{2}{5}$

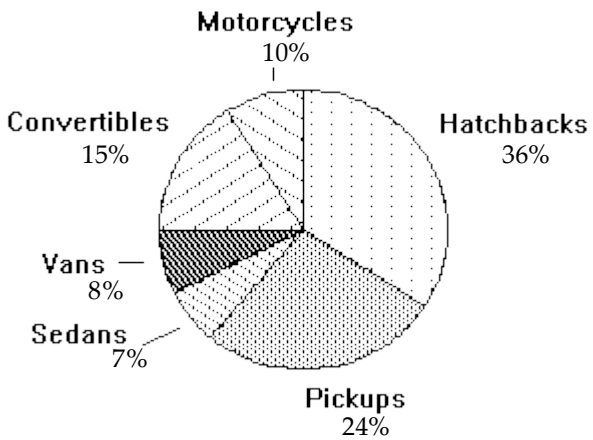
D)

percent	decimal	fraction
44%	0.44	$\frac{11}{25}$

Answer: D

Use the circle graph to solve the problem.

392) A survey of the 6998 vehicles on the campus of State University yielded the following circle graph.



Find the number of motorcycles. Round your result to the nearest whole number.

A) 350 B) 10 C) 6298 D) 700

Answer: D

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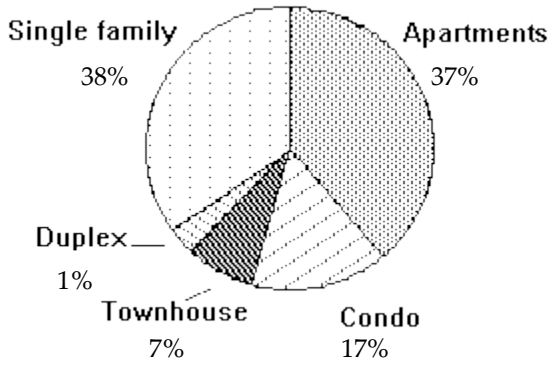
393) The circle graph shows the percent of the total population of 65,000 of Springfield living in the given types of housing.

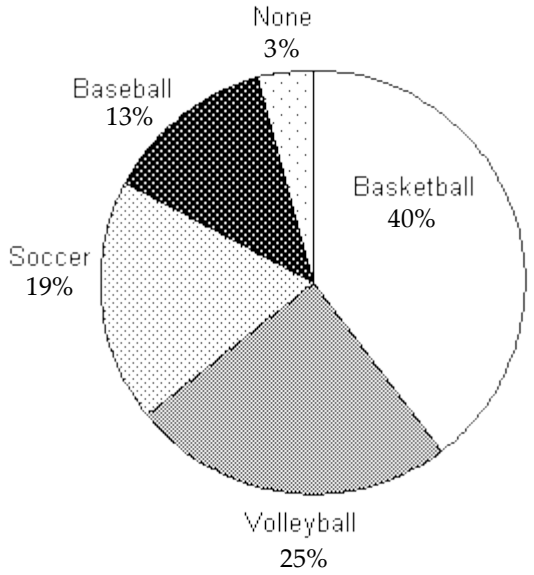


Find the number of people who live in apartments. Round your result to the nearest whole number.

A) 20,800 people B) 37 people C) 24,050 people D) 40,950 people

Answer: C

394) There are 21,000 students attending the local university. The circle graph shows the percentage of those students who attend different sporting events.



How many students attend Basketball and Baseball games?

A) 11,130 students B) 1,113,000 students C) 2730 students D) 8400 students

Answer: A

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Answer Key
Testname: UNTITLED1

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

Pathways to College Mathematics 2nd edition Blitzer Test Bank

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

Pathways to College Mathematics 2nd edition Blitzer Test Bank

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

Pathways to College Mathematics 2nd edition Blitzer Test Bank

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

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201) A
202) B
203) A
204) C
205) A
206) C
207) A
208) B
209) A
210) A
211) D
212) D
213) D
214) B
215) A
216) D
217) C
218) A
219) B
220) A
221) C
222) B
223) A
224) C
225) A
226) a) $32.1 thousand, b) underestimates by $0.4 thousand, c) $32,500
227) B
228) C
229) C
230) B
231) D
232) D
233) D
234) A
235) A
236) B
237) A
238) D
239) B
240) C
241) D
242) D
243) A
244) D
245) C
246) A
247) B
248) A
249) B
250) C

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

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301) C
302) A
303) A
304) D
305) A
306) D
307) A
308) C
309) C
310) A
311) B
312) C
313) A
314) D
315) B
316) D
317) D
318) D
319) D
320) D
321) A
322) C
323) C
324) A
325) A
326) C
327) C
328) D
329) C
330) D
331) C
332) D
333) C
334) C
335) C
336) D
337) C
338) A
339) B
340) C
341) D
342) A
343) C
344) C
345) C
346) B
347) C
348) D
349) A
350) D

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351) C
352) C
353) D
354) B
355) A
356) D
357) D
358) B
359) C
360) C
361) D
362) C
363) D
364) A
365) A
366) B
367) C
368) D
369) C
370) B
371) B
372) A
373) B
374) A
375) C
376) A
377) D
378) B
379) B
380) C
381) A
382) D
383) D
384) D
385) B
386) A
387) D
388) C
389) C
390) C
391) D
392) D
393) C
394) A

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