Basic College Mathematics with Early Integers 4th edition Martin Gay Test Bank

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

Answer the question according to what the textbook states.

1) Which of these is the most important general tip for success in a mathematics course?
A) Don't be afraid to ask questions
B) Organize your class materials
C) Do your homework
D) Check your work

Answer: B

2) Which of these is NOT listed as a tip to help you succeed in this course?
A) Know how to get help if you need it.
B) Hand in assignments on time.
C) Exchange names and phone numbers with at least one other person in class.
D) Read your textbook after you attend class.

Answer: D

3) Which of these is NOT an end–of–chapter component designed to help you understand the concepts of the chapter?
A) Calculator exercises
B) Chapter test
C) Highlights
D) Vocabulary checks

Answer: A

4) Which of these is listed as one of several steps in preparing for an exam?
A) Skip over the chapter Highlights.
B) Use your notes, previous assignments, and text the entire time you are studying.
C) Practice exercises by working the chapter review.
D) Leave for the exam as late as possible to increase your amount of study time.

Answer: C

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

5) 2530
A) Ones
B) Tens
C) Hundreds
D) Thousands

Answer: B

6) 30,542
A) Thousands
B) Ten–thousands
C) Hundred–thousands
D) Tens

Answer: B

7) 25,304,168
A) Ten–thousands
B) Hundreds
C) Hundred–thousands
D) Thousands

Answer: C

8) 30,500,421
A) Millions
B) Ten–millions
C) Tens
D) Ten–thousands

Answer: B

9) 1392
A) Hundreds
B) Ones
C) Tens
D) Thousands

Answer: A

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10) 403,681,295

A) Hundred–millions
B) Thousands
C) Hundred–thousands
D) Millions

Answer: D

11) 463,981

A) Hundred–thousands
B) Thousands
C) Hundreds
D) Ten–thousands

Answer: B

12) 45,271,903

A) Tens
B) Ten–millions
C) Ones
D) Hundreds

Answer: C

Solve.

13) Write the largest four–digit number that can be made from the digits 7, 3, 9, and 2 if each digit must be used once.

A) 9723
B) 7932
C) 9732
D) 2379

Answer: C

Write the whole number in words.

14) 135,060

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

Answer: B

15) 9,300,695

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

Answer: D

16) 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

17) 64,568,009

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

Answer: B

18) 235,060

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

Answer: D

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19) 4,200,091

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

Answer: A

20) 3072

A) Thirty thousand, seventy–two
B) Three hundred thousand, seventy–two
C) Three thousand, seventy–two
D) Three million, seventy–two

Answer: C

21) 70,146

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

Answer: D

22) Jennilee has 30,000 frequent flier miles.

A) Three hundred thousand
B) Three thousand
C) Thirty thousand
D) Thirty million

Answer: C

23) Paul has the number 24,730,208 showing on his calculator display.

A) Twenty–four million, seven hundred thirty thousand, two hundred eighty
B) Twenty–four million, seventy–three thousand, two hundred eight
C) Twenty–four million, seven hundred thirty thousand, two hundred eight
D) Twenty–four million, seven hundred three thousand, two hundred eight

Answer: C

Write the whole number in standard form.

24) Eight thousand, one hundred sixty–seven

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

Answer: D

25) Thirty–two thousand, nine hundred five

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

Answer: B

26) Seven thousand, six

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

Answer: D

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

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

Answer: A

28) Two hundred six thousand, one hundred seven

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

Answer: C

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29) One hundred million, six thousand

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

Answer: B

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

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

Answer: B

31) Last year the population of a city increased by two thousand, one hundred eight.

A) 21,008 B) 2108 C) 2180 D) 2018

Answer: B

32) Andy collected eighty–two thousand dollars for his campaign.

A) 82,000 B) 802,000 C) 8200 D) 80,002

Answer: A

33) Last year a town consumed three hundred million, six thousand gallons of water.

A) 300,060,000 B) 300,600,000 C) 306,000,000 D) 300,006,000

Answer: D

Write the whole number in expanded form.

34) 162

A) 1000 + 600 + 20 B) 200 + 60 + 1 C) 16,200 D) 100 + 60 + 2

Answer: D

35) 6,428

A) 6,428,000 B) 6000 + 400 + 20 + 8 C) 8000 + 200 + 40 + 6 D) 600 + 20 + 4

Answer: B

36) 21,758

A) 20,000 + 1000 + 700 + 50 + 8 B) 80,000 + 5000 + 700 + 10 + 2

C) 2000 + 100 + 70 + 58 D) 21,758

Answer: A

37) 70,800

A) 7000 + 800 B) 70,000 + 8000 C) 70,000 + 800 D) 7,800,000

Answer: C

38) 4,020

A) 40,000 + 2000 B) 4000 + 20 C) 402,000 D) 400 + 2

Answer: B

39) 70,450

A) 7000 + 40 + 5 B) 70,000 + 4000 + 50 C) 7000 + 400 + 5 D) 70,000 + 400 + 50

Answer: D

40) 32,501,002

A) 32,000,000 + 501,000 + 2 B) 30,000,000 + 200,000 + 50,000 + 1000 + 2

C) 30,000,000 + 2,000,000 +500,000 +100 + 2 D) 30,000,000 + 2,000,000 + 500,000 + 1000 + 2

Answer: D

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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**

41) Write in words the number of votes received by Mr. Olsen.

A) two thousand, seven hundred eighty
B) two thousand, seventy–eight
C) twenty thousand, seventy–eight
D) two thousand, seven hundred eight

Answer: B

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

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

Answer: D

43) Write the number of votes received by Mr. Barone in expanded form.

A) 2700 + 80
B) 2000 + 70 + 8
C) 2000 + 700 + 80
D) 2000 + 700 + 8

Answer: C

44) Write the number of votes received by Ms. Vaporis in expanded form.

A) 300 + 70 + 6
B) 3700 + 6
C) 3000 + 70 + 6
D) 3000 + 700 + 6

Answer: D

45) Who won the election?

A) Mr. Barone
B) Mr. Olsen
C) Ms. Li
D) Ms. Vaporis

Answer: C

Add.

46)

$$\begin{array}{r} 86 \\ +\ 29 \\ \hline \end{array}$$

A) 116
B) 105
C) 114
D) 115

Answer: D

47)

$$\begin{array}{r} 32 \\ 11 \\ +\ 31 \\ \hline \end{array}$$

A) 56
B) 74
C) 83
D) 47

Answer: B

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48)
  8
  9
  6
  8
+ 6

A) 35 B) 37 C) 40 D) 38

Answer: B

49) 32 + 11 + 21

A) 46 B) 55 C) 64 D) 73

Answer: C

50) 59 + 93

A) 152 B) 151 C) 153 D) 142

Answer: A

51)
  81
  50
   6
  37
+ 76

A) 250 B) 260 C) 273 D) 304

Answer: A

52)
  288
+ 973

A) 1,261 B) 1,027 C) 1,051 D) 926

Answer: A

53) 295 + 494

A) 1,128 B) 789 C) 1,028 D) 1,189

Answer: B

54) 4,399 + 9,296

A) 1,133 B) 1,285 C) 13,695 D) 1,234

Answer: C

55) 7,750 + 904 + 89 + 8,473

A) 16,206 B) 17,106 C) 16,116 D) 17,216

Answer: D

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56)
  8,165
+ 1,478

A) 727 B) 9,643 C) 733 D) 626

Answer: B

57)
  8,907
    848
     83
+ 3,354

A) 13,192 B) 12,182 C) 13,082 D) 12,092

Answer: A

58)
     59
    755
  4,683
+ 16123

A) 20,620 B) 21,620 C) 21,520 D) 21,600

Answer: B

59)
  1,079
    459
     79
  3,820
+ 6,759

A) 11,096 B) 12,086 C) 12,196 D) 11,186

Answer: C

60)
   178,082
    53,204
+ 4,827,538

A) 6,058,824 B) 5,058,824 C) 5,068,824 D) 5,058,834

Answer: B

61)
  4,694,878
  3,649,891
+ 1,421,587

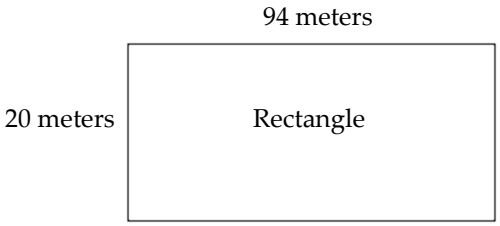
A) 9,766,356 B) 9,756,356 C) 9,766,456 D) 8,766,356

Answer: A

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Find the perimeter.

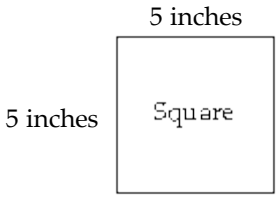
62)



A) 208 meters B) 228 meters C) 1,880 meters D) 114 meters

Answer: B

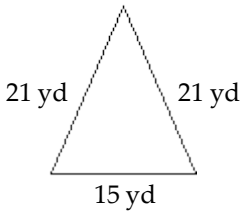
63)



A) 25 in. B) 15 in. C) 20 in. D) 10 in.

Answer: C

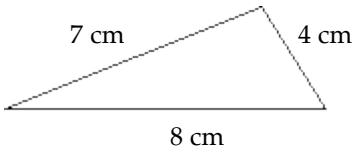
64)



A) 57 yd B) 55 yd C) 157.5 yd D) 42 yd

Answer: A

65)

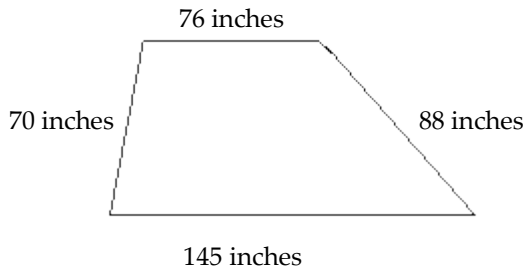


A) 18 cm B) 16 cm C) 19 cm D) 15 cm

Answer: C

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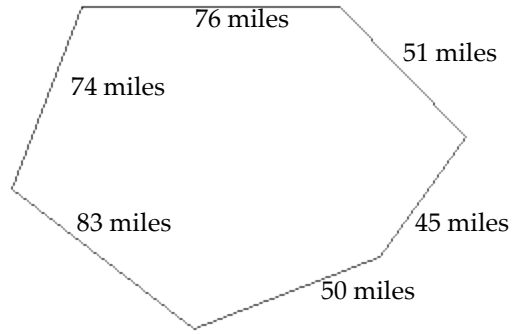
66)



A) 328 in. B) 303 in. C) 316 in. D) 379 in.

Answer: D

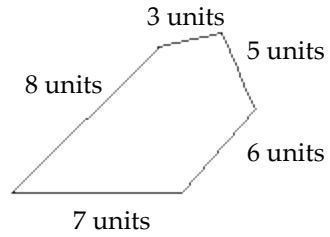
67)



A) 305 mi B) 455 mi C) 379 mi D) 399 mi

Answer: C

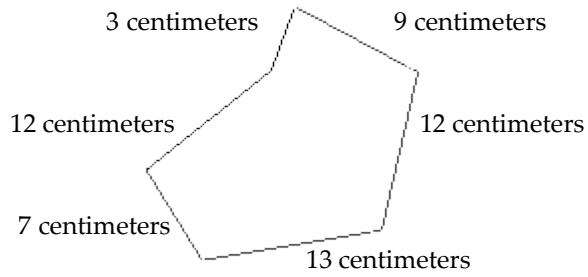
68)



A) 29 units B) 23 units C) 21 units D) 22 units

Answer: A

69)



A) 50 cm B) 63 cm C) 56 cm D) 44 cm

Answer: C

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Solve.

70) Find the sum of 803 and 3,083.
A) 3,876 B) 3,986 C) 3,887 D) 3,886
Answer: D

71) Find the total of 77, 36, 8, 11, and 136.
A) 260 B) 191 C) 132 D) 268
Answer: D

72) What is 706 increased by 85?
A) 801 B) 781 C) 790 D) 791
Answer: D

73) What is 3,803 plus 525 plus 20?
A) 4,330 B) 4,348 C) 4,358 D) 4,248
Answer: B

74) Last year a company had 5,879 employees. This year the number of employees increased by 1,380. How many employees does the company have now?
A) 7,359 employees B) 7,159 employees C) 7,259 employees D) 7,269 employees
Answer: C

75) A town's population was 122,453. During the last twenty years, the population has increased by 28,549. What is the current population?
A) 150,002 people B) 152,002 people C) 151,002 people D) 151,102 people
Answer: C

76) Andre is installing an invisible fence in his back yard which measures 104 feet by 69 feet by 86 feet by 96 feet. How many feet of wiring is needed to enclose his yard?
A) 365 feet B) 355 feet C) 375 feet D) 345 feet
Answer: B

77) A store sold 33 cassette players on Monday, 18 cassette players on Tuesday, and 27 cassette players on Wednesday. How many cassette players did the store sell in all?
A) 79 cassette players B) 78 cassette players C) 88 cassette players D) 77 cassette players
Answer: B

78) Isabelle went shopping for holiday presents for her family. She spent $239 on Monday, $398 on Tuesday, and $150 on Wednesday. What is the total amount of money that she spent on gifts?
A) $887 B) $787 C) $777 D) $677
Answer: B

79) An election for student body president was held over 3 days. On the first day Jason received 171 votes and Jackie received 121 votes. On the second day Jason received 242 votes and Jackie received 211 votes. On the third day Jason received 234 votes and Jackie received 298 votes. How many votes did Jackie receive?
A) 687 B) 630 C) 647 D) 751
Answer: B

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80) It is 95 miles from Springfield to Middleton. It is 89 miles from Middleton to Oak Hill. Driving directly, it is 148 miles directly from Springfield to Oak Hill. It is 33 miles from Oak Hill to Morland. If Otis drives from Springfield to Middleton, then from Middleton to Oak Hill, and finally home to Springfield, how many miles does he drive?

A) 365 B) 276 C) 342 D) 332

Answer: D

Subtract. Check by adding.

81)

$$\begin{array}{r} 89 \\ -\ 34 \\ \hline \end{array}$$

A) 135 B) 55 C) 123 D) 47

Answer: B

82)

$$\begin{array}{r} 59 \\ -\ 54 \\ \hline \end{array}$$

A) –3 B) 113 C) 5 D) 15

Answer: C

83)

$$\begin{array}{r} 566 \\ -\ 222 \\ \hline \end{array}$$

A) 244 B) 344 C) 340 D) 788

Answer: B

84) 959 – 11

A) 948 B) 946 C) 970 D) 848

Answer: A

85) 8,856 – 124

A) 8,724 B) 732 C) 8,684 D) 8,732

Answer: D

86)

$$\begin{array}{r} 7{,}578 \\ -\ 3{,}451 \\ \hline \end{array}$$

A) 4,125 B) 7,127 C) 4,127 D) 4,025

Answer: C

87)

$$\begin{array}{r} 5{,}978 \\ -\ 5{,}322 \\ \hline \end{array}$$

A) 652 B) 656 C) 5,656 D) 612

Answer: B

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88)
  61
– 15

A) 46 B) 146 C) 76 D) 44

Answer: A

89)
  55
– 18

A) 37 B) 47 C) 73 D) 27

Answer: A

90)
  555
– 56

A) 399 B) 499 C) 611 D) 489

Answer: B

91)
  628
– 291

A) 337 B) 919 C) 335 D) 237

Answer: A

92)
  3,555
– 212

A) 343 B) 3,319 C) 3,339 D) 3,343

Answer: D

93)
  9,636
– 5,164

A) 4,404 B) 9,472 C) 4,472 D) 4,464

Answer: C

94)
  7,569
– 4,644

A) 2,925 B) 2,837 C) 2,917 D) 6,925

Answer: A

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95)
$$\begin{array}{r} 11{,}421 \\ -\ 9{,}566 \\ \hline \end{array}$$

A) 1,853 B) 10,855 C) 1,855 D) 1,813

Answer: C

96)
$$\begin{array}{r} 9{,}020 \\ -\ 1{,}797 \\ \hline \end{array}$$

A) 9,733 B) 8,777 C) 8,333 D) 7,223

Answer: D

97)
$$\begin{array}{r} 54{,}445 \\ -\ 35{,}783 \\ \hline \end{array}$$

A) 18,662 B) 18,576 C) 23,662 D) 18,656

Answer: A

98)
$$\begin{array}{r} 90{,}000 \\ -\ 31{,}976 \\ \hline \end{array}$$

A) 61,976 B) 111,976 C) 121,354 D) 58,024

Answer: D

99) 55,245 – 18,751

A) 36,494 B) 44,494 C) 36,412 D) 36,492

Answer: A

100) 90,000 – 39,123

A) 119,123 B) 69,123 C) 114,207 D) 50,877

Answer: D

101) 6,040 – 3,151

A) 3,111 B) 2,889 C) 4,199 D) 3,999

Answer: B

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

Solve.

102) Fill in the missing digits in the problem.

$$\begin{array}{r} 2__,7__1 \\ -\ 409__ \\ \hline 20,6__1 \end{array}$$

Answer:

$$\begin{array}{r} 24,721 \\ -\ 4090 \\ \hline 20,631 \end{array}$$

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

103) Subtract 8 from 32.
A) 34 B) 25 C) 23 D) 24
Answer: D

104) Find the difference of 74 and 9.
A) 66 B) 75 C) 65 D) 64
Answer: C

105) Subtract 28 from 83.
A) 111 B) 49 C) 95 D) 55
Answer: D

106) Find 545 less 57.
A) 478 B) 388 C) 488 D) 602
Answer: C

107) Find 25 subtracted from 62.
A) 87 B) 37 C) 47 D) 33
Answer: B

108) Paula has a total of $1,500 in her checking account. If she writes a check for each of the items below, how much money will be left in her account?

phone	$ 48
rent	$750
car	$429

A) $272 B) $263 C) $1227 D) $273
Answer: D

109) Svetlana is trading her car in on a new car. The new car costs $25,025. Her car is worth $8,998. How much more money does she need to buy the new car?
A) $15,927 B) $16,028 C) $16,027 D) $16,017
Answer: C

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110) The population of Harlowe County is 873,819. The population of Farmington County is 217,907. The population of Cameron County is 378,196. How much greater is the population of Harlowe County than Cameron County?

A) 656,912 B) 655,912 C) 495,623 D) 495,523

Answer: C

111) Population of Four States from 1970 to 2010

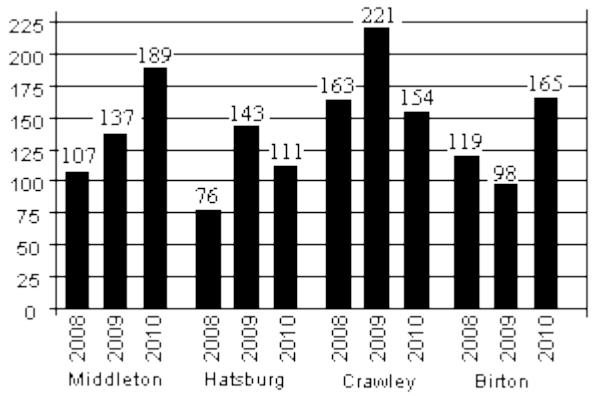
	1970	1980	1990	2000	2010
State A	10,081,158	11,110,285	11,427,409	11,430,602	12,051,683
State B	7,823,194	8,881,826	9,262,044	9,295,297	9,679,052
State C	4,662,498	5,195,392	5,490,212	5,544,159	6,045,521
State D	3,413,864	3,806,103	4,075,970	4,375,099	4,830,784

How much did the population of State B increase from 1,980 to 2,010?

A) 797,226 B) 787,226 C) 427,008 D) 417,008

Answer: A

112) The number of new residents in several towns during the years 2008 to 2010 is given in the following bar graph.



What was the increase in the number of new residents in Middleton from 2,009 to 2,010?

A) 54 B) 32 C) 52 D) 30

Answer: C

113) A stock worth $114 per share on July 12 dropped to $96 per share on July 31 of the same year. Find how much it lost in value from July 12th to the 31st.

A) $22 B) $28 C) $18 D) $19

Answer: C

114) Claire is reading a 501–page book. If she has just finished reading page 215, how many more pages must she read to finish the book?

A) 296 pages B) 287 pages C) 396 pages D) 286 pages

Answer: D

115) A camera that sells regularly for $370 is discounted by $99 in a sale. What is the sale price?

A) $469 B) $281 C) $99 D) $271

Answer: D

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116) As part of homecoming festivities the student organizations are selling donuts. The fraternities have sold 456,123 donuts; the sororities have sold 111,112 donuts; the band members have sold 246,321 donuts; and the athletes have sold 351,056 donuts. Have they reached their goal of 1 million donuts sold? If not, how many more donuts need to be sold?

A) no; 164,612 B) yes

Answer: B

Round the whole number to the given place value.

117) 476 to the nearest ten

A) 480 B) 490 C) 580 D) 470

Answer: A

118) 42,023 to the nearest hundred

A) 42,100 B) 42,000 C) 41,900 D) 42,010

Answer: B

119) 1,062 to the nearest thousand

A) 2,000 B) 1,100 C) 1,000 D) 900

Answer: C

120) 36,299 to the nearest thousand

A) 46,000 B) 36,000 C) 37,000 D) 36,100

Answer: B

121) 648,327 to the nearest ten thousand

A) 700,000 B) 648,000 C) 640,000 D) 650,000

Answer: D

122) 13,788,273 to the nearest million

A) 14,000,000 B) 13,788,000 C) 13,800,000 D) 13,000,000

Answer: A

123) 83,997 to the nearest ten

A) 83,000 B) 83,900 C) 84,000 D) 83,990

Answer: C

124) 9,999,995 to the nearest ten

A) 100,000,000 B) 9,999,990 C) 10,000,000 D) 10,000,090

Answer: C

125) A company spent $493,749,671 on advertising. Round the advertising figure to the nearest hundred–thousand.

A) 400,000,000 B) 500,000,000 C) 493,800,000 D) 493,700,000

Answer: D

126) A publishing company sold 17,268,591 books. Round the number of books sold to the nearest ten–million.

A) 17,270,000 B) 10,000,000 C) 20,000,000 D) 17,000,000

Answer: C

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Round the following to the nearest ten, nearest hundred, and nearest thousand.

127) 1415

A)		B)		C)		D)	
Ten	1,410	Ten	1,420	Ten	1,410	Ten	1,420
Hundred	1,500	Hundred	1,400	Hundred	1,400	Hundred	1,500
Thousand	2,000	Thousand	1,000	Thousand	1,000	Thousand	1,000

Answer: B

128) 3570

A)		B)		C)		D)	
Ten	3,580	Ten	3,570	Ten	3,580	Ten	3,570
Hundred	3,600	Hundred	3,500	Hundred	3,500	Hundred	3,600
Thousand	4,000	Thousand	4,000	Thousand	3,000	Thousand	4,000

Answer: D

129) 4262

A)		B)		C)		D)	
Ten	4,260	Ten	4,260	Ten	4,270	Ten	4,270
Hundred	4,200	Hundred	4,300	Hundred	4,300	Hundred	4,200
Thousand	4,000	Thousand	4,000	Thousand	4,000	Thousand	5,000

Answer: B

130) 4365

A)		B)		C)		D)	
Ten	4,360	Ten	4,360	Ten	4,370	Ten	4,370
Hundred	4,400	Hundred	4,300	Hundred	4,400	Hundred	4,300
Thousand	4,000	Thousand	5,000	Thousand	4,000	Thousand	4,000

Answer: C

131) 87,572

A)		B)		C)		D)	
Ten	87,580	Ten	87,570	Ten	87,580	Ten	87,570
Hundred	87,600	Hundred	87,580	Hundred	87,500	Hundred	87,600
Thousand	90,000	Thousand	87,000	Thousand	87,000	Thousand	88,000

Answer: D

132) 10,399

A)		B)		C)		D)	
Ten	10,400	Ten	10,390	Ten	10,400	Ten	10,390
Hundred	10,390	Hundred	10,400	Hundred	10,400	Hundred	10,300
Thousand	11,000	Thousand	10,410	Thousand	10,000	Thousand	11,000

Answer: C

Solve.

133) A number rounded to the nearest hundred is 5,200. Determine the largest possible number.

A) 5,151 B) 5,248 C) 5,250 D) 5,249

Answer: D

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Estimate the sum or difference by rounding each number to the nearest ten.

134)

71
17
75
67
+ 16

A) 200 B) 250 C) 246 D) 260

Answer: D

135)

95
− 71

A) 20 B) 24 C) 170 D) 30

Answer: D

136)

84
+ 71

A) 160 B) 155 C) 200 D) 150

Answer: D

137)

8,587
− 2,174

A) 6,420 B) 6,410 C) 6,400 D) 6,413

Answer: A

138)

764
− 27

A) 730 B) 737 C) 740 D) 700

Answer: A

Estimate the sum or difference by rounding each number to the nearest hundred.

139)

238
285
754
961
+ 668

A) 2,906 B) 2,900 C) 3,000 D) 2,910

Answer: C

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140)
958
− 321

A) 1,300 B) 700 C) 600 D) 637

Answer: B

141)
4,153
+ 2,564

A) 6,800 B) 6,700 C) 7,000 D) 6,717

Answer: A

142)
529
744
587
785
+ 312

A) 2,960 B) 2,957 C) 3,000 D) 2,900

Answer: D

143)
577
− 437

A) 100 B) 200 C) 140 D) 1,000

Answer: B

144)
8,268
− 1,944

A) 6,400 B) 6,300 C) 6,000 D) 6,324

Answer: A

Estimate the result of the calculation. Use your estimate to determine if the result appears to be correct or incorrect.

145)
484
316
578
+ 826
2,204

A) Incorrect. Estimate: 2,100 B) Correct. Estimate: 2,200

C) Incorrect. Estimate: 2,300 D) Incorrect. Estimate: 2,400

Answer: B

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146)

$$\begin{array}{r} 507 \\ 568 \\ 311 \\ +\ 792 \\ \hline 1{,}978 \end{array}$$

A) Incorrect. Estimate: 2,400
B) Incorrect. Estimate: 2,200
C) Incorrect. Estimate: 2,000
D) Incorrect. Estimate: 2,300

Answer: B

147)

$$\begin{array}{r} 711{,}825 \\ -\ 378{,}852 \\ \hline 332{,}973 \end{array}$$

A) Correct. Estimate: 300,000
B) Incorrect. Estimate: 100,000
C) Incorrect. Estimate: 200,000
D) Incorrect. Estimate: 400,000

Answer: A

148)

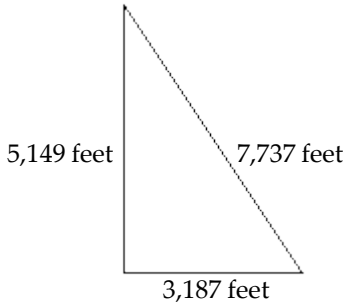
$$\begin{array}{r} 875{,}822 \\ -\ 518{,}366 \\ \hline 557{,}456 \end{array}$$

A) Incorrect. Estimate: 600,000
B) Incorrect. Estimate: 400,000
C) Correct. Estimate: 300,000
D) Incorrect. Estimate: 500,000

Answer: B

Solve.

149) Estimate the perimeter by first rounding each length to the nearest hundred.



A) 16,000 feet
B) 8,204,900 feet
C) 16,100 feet
D) 8,000 feet

Answer: A

Solve the problem by estimating.

150) Andy wants to buy a refrigerator for $899, a stove for $559, and a dishwasher for $249. Round each cost to the nearest hundred to estimate the total cost.

A) $1,800
B) $1,600
C) $1,700
D) $1,500

Answer: C

151) The population of Capital City is 8,365,831 and the population of Spring City is 3,312,652. Round each population to the nearest hundred–thousand to estimate how much larger Capital City is than Spring City.

A) 5,200,000
B) 5,100,000
C) 5,053,000
D) 5,000,000

Answer: B

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152) Linda scored 62, 85, 70, 78, 84, and 100 on her calculus tests. Round each score to the nearest ten to estimate her total score.

A) 460 B) 490 C) 480 D) 470

Answer: C

153) The Pan family took a trip and traveled 365, 349, 439, 898, and 760 miles on 5 consecutive days. Round each distance to the nearest hundred and estimate the distance they traveled.

A) 2,800 miles B) 3,000 miles C) 2,700 miles D) 2,900 miles

Answer: A

154) A local sandwich shop sells 178 sandwiches on an average day. Estimate how many sandwiches they sold in the last 214 days. Round the number of sandwiches and the number of days to the nearest ten.

A) 37,800 B) 37,900 C) 379,000 D) 378,000

Answer: A

155) Mike travelled for 3 weeks in Europe last year and spent $969 while he was there. Estimate the average amount he spent each day. Round the number of days to the to the nearest ten and the amount of money spent to the nearest hundred.

A) $500 B) $50 C) $40 D) $400

Answer: B

156) As part of her preparation for softball tryouts, Georgia did 94 sit–ups each day for 47 days. Estimate how many sit–ups she did during that period. Round the number of sit–ups and the number of days to the to the nearest ten.

A) 45,000 B) 13,000 C) 1,300 D) 4,500

Answer: D

Use the distributive property to rewrite the expression.

157) $9(2 + 7)$

A) $9 \cdot 2 + 7$ B) $9 + 2 + 7$ C) $9 \cdot 2 \cdot 7$ D) $9 \cdot 2 + 9 \cdot 7$

Answer: D

158) $5(1 + 2)$

A) $5 \cdot 1 + 5 \cdot 2$ B) $5 \cdot 1 \cdot 2$ C) $5 + 1 + 2$ D) $5 \cdot 1 + 2$

Answer: A

159) $29(49 + 37)$

A) $29 + 49 + 37$ B) $29 \cdot 49 + 29 \cdot 37$ C) $29 \cdot 86$ D) $29 \cdot 49 + 37$

Answer: B

Multiply.

160)

$$\begin{array}{r} 89 \\ \times\ \ 2 \\ \hline \end{array}$$

A) 278 B) 168 C) 171 D) 178

Answer: D

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161)
519
× 8

A) 4,052 B) 4,152 C) 4,162 D) 4,252
Answer: B

162)
4,938
× 7

A) 34,576 B) 34,466 C) 34,666 D) 34,566
Answer: D

163)
20,546
× 6

A) 123,246 B) 123,266 C) 123,376 D) 123,276
Answer: D

164) 249 × 8
A) 2,092 B) 1,892 C) 2,002 D) 1,992
Answer: D

165) 4,831 × 3
A) 14,393 B) 14,593 C) 14,493 D) 14,503
Answer: C

166)
208
× 17

A) 3,544 B) 3,528 C) 476 D) 3,536
Answer: D

167)
547
× 29

A) 15,963 B) 15,853 C) 15,873 D) 15,863
Answer: D

168) (94)(625)(0)
A) 58,750 B) 58,740 C) 0 D) 58,850
Answer: C

169) (960)(60)
A) 57,596 B) 57,610 C) 57,590 D) 57,600
Answer: D

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170) (410)(1)(40)

A) 16,390 B) 16,410 C) 16,396 D) 16,400

Answer: D

171) 1,166 × 38

A) 34,988 B) 12,826 C) 44,308 D) 3,398

Answer: C

172) 580 × 183

A) 106,140 B) 106,240 C) 106,150 D) 106,130

Answer: A

173)

1,807
× 207

A) 374,049 B) 48,789 C) 372,242 D) 16,263

Answer: A

174)

4,732
× 234

A) 1,117,288 B) 1,107,288 C) 1,106,288 D) 1,107,388

Answer: B

175)

1,534
× 2,406

A) 3,773,640 B) 3,077,204 C) 3,138,564 D) 3,690,804

Answer: D

176)

764
× 110

A) 76,400 B) 84,040 C) 8,404 D) 840,400

Answer: B

Estimate the answer by rounding as indicated.

177) Estimate the product by rounding each factor to the nearest hundred.

839 × 708

A) 594,000 B) 560,000 C) 1,500 D) 594,012

Answer: B

178) Estimate the product by rounding each factor to the nearest ten.

523 × 95

A) 620 B) 52,000 C) 49,690 D) 49,685

Answer: B

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Solve.

179) Fill in the missing digits in the problem.

$$\begin{array}{r} 7_ \\ \times\ _1 \\ \hline 74 \\ \underline{2{,}220} \\ 2{,}294 \end{array}$$

A) 8, 6 B) 4, 3
C) 1, 2 D) cannot be determined

Answer: B

Multiply.

180) 9×100

A) 1,000 B) 900 C) 9,000 D) 90

Answer: B

181) 27×1000

A) 270 B) 2,700 C) 27,000 D) 270,000

Answer: C

182) $6{,}053 \cdot 10$

A) 60,530 B) 605,300 C) 65,030 D) 65,300

Answer: A

183) $2 \cdot 3{,}000$

A) 60,000 B) 6,000 C) 600 D) 5,000

Answer: B

184) $50 \cdot 600$

A) 11,000 B) 30,000 C) 300,000 D) 3,000

Answer: B

185) $45 \cdot 50{,}000$

A) 225,000 B) 2,250,000 C) 22,500,000 D) 500,000

Answer: B

Find the area of the rectangle.

186)

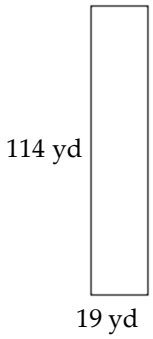


A) 64 sq ft B) 16 sq ft C) 48 sq ft D) 32 sq ft

Answer: D

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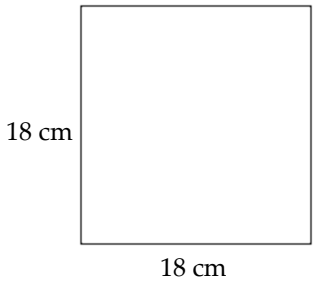
187)



A) 2,156 sq yd B) 1,805 sq yd C) 2,166 sq yd D) 133 sq yd

Answer: C

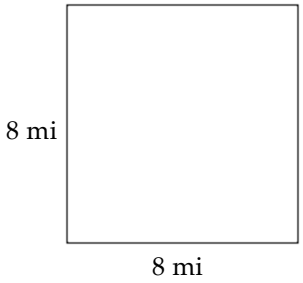
188)



A) 648 sq cm B) 319 sq cm C) 324 sq cm D) 72 sq cm

Answer: C

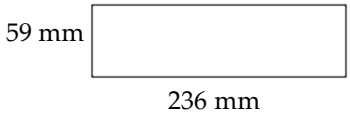
189)



A) 67 sq mi B) 32 sq mi C) 60 sq mi D) 64 sq mi

Answer: D

190)

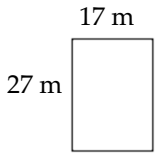


A) 13,914 sq mm B) 13,924 sq mm C) 590 sq mm D) 13,934 sq mm

Answer: B

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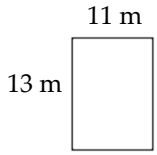
191)



A) 459 sq m B) 918 sq m C) 88 sq m D) 44 sq m

Answer: A

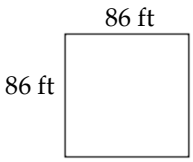
192)



A) 24 sq m B) 286 sq m C) 143 sq m D) 48 sq m

Answer: C

193)



A) 172 sq ft B) 344 sq ft C) 14,792 sq ft D) 7,396 sq ft

Answer: D

Solve.

194) Multiply 13 by 5.

A) 55 B) 58 C) 65 D) 165

Answer: C

195) Find the product of 4 and 753.

A) 3,022 B) 3,112 C) 2,912 D) 3,012

Answer: D

196) The textbook for a history class costs $102. There are 30 students in the class. Find the total cost of the history books for the class.

A) $3,030 B) $132 C) $2,958 D) $3,060

Answer: D

197) The seats in a lecture hall are arranged in 16 rows with 9 seats in each row. Find how many seats are in this room.

A) 144 seats B) 135 seats C) 154 seats D) 153 seats

Answer: A

198) A case of candy bars has 4 layers of candy bars. In each layer are 7 rows with 16 candy bars in each row. Find how many candy bars are in a case.

A) 438 candy bars B) 448 candy bars C) 447 candy bars D) 458 candy bars

Answer: B

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199) An apartment complex has 6 apartment buildings. Each building has 7 floors with 9 apartments per floor. Find how many apartments are in this complex.

A) 378 apartments B) 368 apartments C) 388 apartments D) 22 apartments

Answer: A

200) A rectangular plot of land measure 70 feet by 120 feet. Find its area.

A) 380 sq. ft. B) 840 sq. ft. C) 8,400 sq. ft. D) 190 sq. ft.

Answer: C

201) In a distant solar system the diameter of planet A is 6 times as great as the diameter of planet B. The diameter of planet B is 707 miles. Find the diameter of planet A.

A) 4,242 mi. B) 4,142 mi. C) 4,236 mi. D) 4,232 mi.

Answer: A

202) A company rents a mid–size car at $317 per month for nine months. What is the cost for the car rental during this time?

A) $2,885 B) $2,853 C) $326 D) $2,802

Answer: B

203) There are 94 guinea pigs in a room, with an assortment of black and white ears and paws. 23 have totally black ears and 3 white paws, 30 guinea pigs have 1 black ear and 2 white paws, and 41 have no black ears and 1 white paw. How many black paws are in the room?

A) 206 B) 205 C) 173 D) 170

Answer: A

204) During the recent Homecoming football game, State U. scored the following: 6 six–point touchdowns, 3 extra points, 4 three–point field goals, and 1 two–point safety. What was State U.'s final score?

A) 24 points B) 23 points C) 53 points D) 15 points

Answer: C

Divide and then check by multiplying.

205) $\frac{12}{2}$

A) 5 R 1 B) 6 C) 7 D) 5 R 2

Answer: B

206) $\frac{64}{8}$

A) 7 R 8 B) 9 C) 7 R 7 D) 8

Answer: D

207) $12 \div 4$

A) 2 R 3 B) 3 C) 4 D) 2 R 4

Answer: B

208) $25 \div 5$

A) 4 R 4 B) 6 C) 5 D) 4 R 5

Answer: C

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

A) 5 B) 0 C) 1 D) Undefined

Answer: D

210) $4 \div 1$

A) 1 B) 4 C) 0 D) Undefined

Answer: B

211) $29 \div 29$

A) 0 B) 29 C) 1 D) Undefined

Answer: C

212) $0 \div 52$

A) 52 B) 1 C) 0 D) Undefined

Answer: C

Divide.

213) $5\overline{)15}$

A) 2 R 5 B) 2 R 4 C) 3 D) 4

Answer: C

214) $3\overline{)15}$

A) 5 B) 4 R 3 C) 4 R 2 D) 6

Answer: A

215) $7\overline{)399}$

A) 55 B) 59 C) 60 D) 57

Answer: D

216) $6\overline{)816}$

A) 138 B) 139 C) 134 D) 136

Answer: D

217) $4\overline{)4,744}$

A) 1,186 R 3 B) 1,184 R 1 C) 1,184 D) 1,186

Answer: D

218) $7{,}046 \div 26$

A) 272 B) 271 R 17 C) 272 R 16 D) 271

Answer: D

219) $68\overline{)87,652}$

A) 1,289 B) 1,299 R 17 C) 1,294 R 9 D) 1,279

Answer: A

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220) $\frac{47{,}196}{57}$

A) 833 R 5 B) 818 C) 838 R 13 D) 828

Answer: D

221) 204 ÷ 7

A) 30 B) 29 R 6 C) 29 R 1 D) 29

Answer: C

222) 185 ÷ 8

A) 23 R 1 B) 24 C) 23 D) 23 R 7

Answer: A

223) 1,537 ÷ 4

A) 385 B) 384 R 1 C) 384 D) 384 R 3

Answer: B

224) 3,633 ÷ 5

A) 726 R 3 B) 726 C) 725 R 8 D) 726 R 2

Answer: A

225) 4,063 ÷ 5

A) 812 R 2 B) 812 C) 812 R 3 D) 811 R 8

Answer: C

226) 11,884 ÷ 14

A) 848 R 12 B) 12 C) 848 D) 848 R 6

Answer: A

227) 358,821 ÷ 700

A) 512 B) 512 R 351 C) 512 R 421 D) 421

Answer: C

228) 429,666 ÷ 450

A) 954 R 366 B) 954 R 276 C) 366 D) 954

Answer: A

229) 1,809 ÷ 60

A) 33 R 52 B) 30 R 9 C) 30 D) 33 R 5

Answer: B

230) 3,779 ÷ 29

A) 130 R 9 B) 133 R 5 C) 130 D) 133 R 21

Answer: A

Solve.

231) Find the quotient of 263 and 5.

A) 52 R 3 B) 55 C) 52 R 4 D) 52

Answer: A

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232) Find 253 divided by 4.
A) 63 B) 64 C) 63 R 3 D) 63 R 1
Answer: D

233) Amy teaches Chinese lessons for $95 per student for a 6–week session. From one group of students, she collects $2,945. Find how many students are in the group.
A) 33 students B) 21 students C) 35 students D) 31 students
Answer: D

234) One ticket won a prize of $9,128,000. The winning ticket was purchased by 28 people who had pooled their money. Find how many dollars each person receives if they each receive an equal share.
A) $325,000 B) $32,700 C) $32,600 D) $326,000
Answer: D

235) In a distant galaxy the gravity of planet A is 217 times as strong as the gravity of planet B, so objects on planet A weigh 217 times as much as they weigh on planet B. If the object weighs 27,559 pounds on planet A, how much does it weigh on plant B?
A) 137 lb. B) 127 lb. C) 120 lb. D) 1,270 lb.
Answer: B

236) Ms. Losch has a piece of rope 266 feet long that she cuts into pieces for an experiment in her first–grade class. Each piece of rope is to be 9 feet long. How many 9 foot long pieces of rope can she cut from the original piece of rope.
A) 29 pieces of rope B) 34 pieces of rope C) 5 pieces of rope D) 30 pieces of rope
Answer: A

237) A dairy produces 270,000 quarts of milk each day. There are 4 quarts in a gallon. How many gallons of milk are produced each day?
A) 675,000 gal. B) 6,750 gal. C) 1,080,000 gal. D) 67,500 gal.
Answer: D

238) Samuel wishes to pay off a car loan of $6,624 in 36 months. How large will his monthly payment be?
A) $176 B) $2,208 C) $184 D) $180
Answer: C

239) County records list a rectangular parcel of land as measuring 29,866 square yards. A surveyor measures the length of the parcel of land as 218 yards. What is the width of the parcel?
A) 137 yards B) 130 yards C) 29,648 yards D) 146 yards
Answer: A

240) If the area of a rectangle is 12 square miles and its length is 6 miles, what is its width?
A) 72 miles B) 2 miles C) 18 miles D) 6 miles
Answer: B

Find the average of the list of numbers.

241) 71, 57, 40, 35, 64, 39
A) 51 B) 49 C) 52 D) 57
Answer: A

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242) 61, 65, 62, 66, 93, 60, 62

A) 66 B) 62 C) 67 D) 77

Answer: C

243) 194, 620, 585, 641

A) 534 B) 510 C) 410 D) 560

Answer: B

244) 164, 123, 145, 152, 161

A) 149 B) 159 C) 152 D) 148

Answer: A

245) 61, 55, 47, 51, 61

A) 54 B) 61 C) 55 D) 47

Answer: C

Solve.

246) The following table shows the amount of money a typical student at State University spends each year on various items.

Books	$870
Room & Board	$7,000
Clothes	$2,800
Entertainment	$5,575

Find the average amount of money spent on Clothes and Room & Board.

A) $4,900 B) $3,222.50 C) $4,061.25 D) $9,800

Answer: A

247) 45 increased by 42 is what number?

A) 69 B) 87 C) 78 D) 96

Answer: B

248) 55 decreased by 8 is what number?

A) 57 B) 48 C) 47 D) 46

Answer: C

249) What is the difference of 51 and 3?

A) 49 B) 58 C) 48 D) 47

Answer: C

250) What is the product of 62 and 6?

A) 368 B) 372 C) 362 D) 472

Answer: B

251) What is the quotient of 15 and 5?

A) 2 R5 B) 2 R4 C) 4 D) 3

Answer: D

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252) 406 divided by 7 is what number?
A) 56 B) 60 C) 61 D) 58
Answer: D

253) A traveler picks up a rental car that has an odometer reading of 39,614 miles on it. When she returns it, the odometer reads 41,536 miles. How many miles did she drive the rental car?
A) 822 B) 10,050 C) 2,022 D) 1,922
Answer: D

254) A store has gross revenues of $5,935, $6,565, $7,591, and $7,503 in its first four weeks of business. What was the gross revenue for those four weeks?
A) $27,594 B) $26,594 C) $27,694 D) $28,144
Answer: A

255) A store orders 15 cases of snack crackers. Each case contains 84 snack crackers. How many snack crackers did the store order?
A) 1,260 B) 1,254 C) 1,270 D) 1,250
Answer: A

256) An airplane is flying east at an altitude of 36,568 feet. Another plane is flying south at an altitude of 31,640 feet. How much above the south–bound plane is the east–bound plane when their paths cross?
A) 4,898 feet B) 4,928 feet C) 5,128 feet D) 4,858 feet
Answer: B

257) Crystal enjoys skiing in the winter. Last year she skied 27 times and spent a total of $1,026. How much did it cost her each time?
A) $38 B) $999 C) $39 D) $27,702
Answer: A

258) A plot of land which is up for sale is advertised as being 31 acres. If there are 4,840 square yards in an acre, how many square yards does the plot of land cover?
A) 149,730 square yards B) 150,660 square yards
C) 4,871 square yards D) 150,040 square yards
Answer: D

259) The Creekwood County school system has 3,145 high school students, 3,313 middle school students, and 4,911 elementary school students. How many total students are in the Creekwood County school system?
A) 11,424 B) 11,369 C) 11,329 D) 11,277
Answer: B

260) Chris had a balance of $40 in his checking account. Since then he made deposits of $187, $262 and $421 and wrote checks for $80, $108, $205, and $332. When all of the deposits are recorded and all of the checks clear, what will balance will he have in his checking account?
A) $145 B) $265 C) $185 D) $1,635
Answer: C

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261) Jasmine wanted to determine the gas mileage she was getting on her car. She filled the gas tank on her car when the odometer read 24,506 miles. After 11 days the odometer read 24,803 miles and it took 9 gallons of gas to fill the tank. How many miles to the gallon did Jasmine's car achieve?

A) 292 miles per gallon
B) 27 miles per gallon
C) 297 miles per gallon
D) 33 miles per gallon

Answer: D

262) Kayla owns 14 acres of land which she rents to a timber grower for $3,187 per acre per year. Her property taxes are $957 per acre per year. How much profit does she make on the land each year?

A) $45,575
B) $58,016
C) $43,661
D) $31,220

Answer: D

263) In preparation for his new job, Bryan bought two suits at $174 a piece, five shirts at $22 a piece, two pairs of shoes at $68 a piece, four ties at $23 a piece, and five pairs of socks at $5 a piece. What was the total cost of these items?

A) $711
B) $729
C) $292
D) $686

Answer: A

264) Chris and his friends went to the movies. They purchased 6 adult tickets, 3 student tickets and 2 child tickets. How much did they spend on movie tickets?

Theater Ticket Prices
Adult - $8
Student - $6
Child - $5

A) 66
B) 70
C) 68
D) 76

Answer: D

265) The chart below lists the prices for custom windows. Window sizes are stated width × length, so a window that is 29 × 31 is 29 inches wide and 31 inches tall. John wants to replace five 25 × 31 windows, four 29 × 36 windows and three 29 × 41 windows. How much will the windows cost?

Custom Window Pricing			
Width	25"	27"	29"
Height			
31"	$180	$220	$260
36"	$250	$290	$330
41"	$320	$360	$400

A) $3,620
B) $3,770
C) $3,420
D) $3,490

Answer: C

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266) An apartment complex replaced various appliances in the building and billed each tenant a one-time assessment fee for the update. Use the chart below to calculate the cost per apartment unit if there are 25 units.

JOHN'S APPLIANCES INVOICE NO. 00356

Bill To:
ABC Apartment Complex
123 Main Street Johnsburg, IL 60123

Quantity	Item Description	Unit Price	Total
20	Quiet Motor Dishwasher	$490	
20	Econo Refrigerator	$380	
12	Super Cycle Washers	$550	
		Total Cost for all Items	

A) $960.00 B) $920.00 C) $1,136.00 D) $56.80

Answer: A

Write using exponential notation.

267) $3 \cdot 3$

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

Answer: B

268) $2 \cdot 2 \cdot 2$

A) 2^3 B) $3 \cdot 2$ C) 3^2 D) 2^1

Answer: A

269) $7 \cdot 7 \cdot 7 \cdot 7$

A) 7^2 B) 7^4 C) 4^7 D) 28

Answer: B

270) $6 \cdot 6 \cdot 6 \cdot 6 \cdot 6$

A) 6^0 B) $5 \cdot 6$ C) 6^5 D) 5^6

Answer: C

271) $13 \cdot 13 \cdot 13 \cdot 13$

A) 13^1 B) $4 \cdot 13$ C) 13^4 D) 4^{13}

Answer: C

272) $18 \cdot 18 \cdot 18 \cdot 18 \cdot 18$

A) $5 \cdot 5^{18}$ B) $5 \cdot 18$ C) 5^{18} D) 18^5

Answer: D

273) $9 \cdot 9 \cdot 5 \cdot 5 \cdot 5 \cdot 5$

A) $2^9 \cdot 4^5$ B) $9^2 \cdot 5^4$ C) $9 \cdot 5^6$ D) 45^6

Answer: B

274) $7 \cdot 7 \cdot 9 \cdot 9 \cdot 9 \cdot 9 \cdot 8$

A) $2^7 \cdot 3^9 \cdot 1^8$ B) $(7 \cdot 9 \cdot 8)^7$ C) $7 \cdot 9 \cdot 8^7$ D) $7^2 \cdot 9^4 \cdot 8$

Answer: D

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Evaluate.

275) 9^2

A) 512 B) 100 C) 18 D) 81

Answer: D

276) 8^3

A) 6,561 B) 512 C) 24 D) 343

Answer: B

277) 11^4

A) 1,331 B) 44 C) 4,194,304 D) 14,641

Answer: D

278) 6^5

A) 15,625 B) 30 C) 46,656 D) 7,776

Answer: D

279) 1^{14}

A) Not defined. B) 1 C) 14 D) 0

Answer: B

280) 6^0

A) 0 B) 1 C) 6 D) Not defined.

Answer: B

281) $6 \cdot 4^3$

A) 72 B) 13,824 C) 70 D) 384

Answer: D

Find the square root.

282) $\sqrt{4}$

A) 3 B) 1 C) 2 D) 16

Answer: C

283) $\sqrt{144}$

A) 13 B) 20,736 C) 12 D) 11

Answer: C

284) $\sqrt{1}$

A) 0 B) 2 C) 1 D) undefined

Answer: C

Simplify.

285) $240 \div 6 - 4$

A) 230 B) 120 C) 36 D) 238

Answer: C

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286) $14 + 25 \cdot 20$

A) 59 B) 514 C) 370 D) 780

Answer: B

287) $3 \cdot 7 - 5$

A) 6 B) 16 C) 26 D) 105

Answer: B

288) $8^2 - 2 \cdot 8$

A) 288 B) 384 C) 48 D) 496

Answer: C

289) $18 \cdot 8 + 15 \cdot 4$

A) 1,656 B) 204 C) 636 D) 1,224

Answer: B

290) $0 \div 2 + 6 \cdot 4$

A) 26 B) 24 C) 32 D) Undefined

Answer: B

291) $48 \div 0 + 8$

A) 56 B) Undefined C) 8 D) 6

Answer: B

292) $8 \cdot 5 + \{24 \div [8 - (3 + 2)]\}$

A) 48 B) 50 C) 49 D) 47

Answer: A

293) $81 \div 3 + \{6 \cdot [18 - (8 \cdot 2)]\}$

A) 29 B) 39 C) 34 D) 42

Answer: B

294) $[34 - (4 + 6) \div 2] - [1 + 6 \div 3]$

A) 21 B) 23 C) 33 D) 26

Answer: D

295) $(64 - 12) \cdot [(80 + 25 \div 5) - (8 \cdot 8 - 2 \cdot 2)]$

A) 1,357 B) 1,400 C) 1,300 D) 1,264

Answer: C

296) $4 \cdot \{(300 - 70 \div 5) - [3 \cdot 25 - (8 - 2 \cdot 3)]\}$

A) −648 B) 802 C) 852 D) 2,628

Answer: C

297) $\{[57 - 2 \cdot 2] - [60 \div (1 + 2)]\} \cdot 4$

A) 176 B) 124 C) 156 D) 132

Answer: D

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298) $(5 + 3)[2 + (2 + 2)]$

A) 10 B) 14 C) 20 D) 48

Answer: D

299) $6[9 + 8(4^2)]$

A) 60,516 B) 6,198 C) 10,086 D) 822

Answer: D

300) $(6 + 8)[8 + (6 + 8)]$

A) 1,056 B) 308 C) 126 D) 2,688

Answer: B

301) $8[3^2 + 6(5 + 8)]$

A) 696 B) 102 C) 1,560 D) 376

Answer: A

302) $\dfrac{193 + 7}{3^2 - 4}$

A) 100 B) 40 C) 60 D) 38

Answer: B

303) $\dfrac{26(17 - 14) - 6}{3^2 - 3}$

A) 13 B) 14 C) 24 D) 12

Answer: D

304) $4\sqrt{36} + 2\sqrt{64}$

A) 40 B) 26 C) 272 D) 14

Answer: A

305) $\dfrac{\sqrt{25} + 5}{10 + 2(10 - 5) - 3^2 - 6}$

A) 25 B) 10 C) 5 D) 2

Answer: D

306) $[\sqrt{81} \div (14 - 5) + 6^2] - (\sqrt{25} + \sqrt{1})^2$

A) 1 B) 11 C) 61 D) 13

Answer: A

307) $(67 - 14) \cdot [(80 + 25 \div 5) - (8 \cdot 8 - 2 \cdot 2)]$

A) 1,325 B) 1,382 C) 1,289 D) 1,425

Answer: A

308) $3 \cdot \{(300 - 40 \div 5) - [3 \cdot 19 - (8 - 2 \cdot 3)]\}$

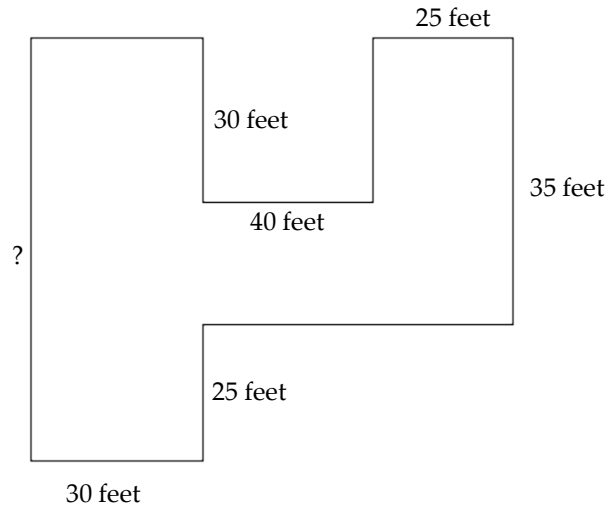
A) 2,487 B) –789 C) 711 D) 661

Answer: C

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Solve.

309) Eight swimming pools for a major hotel chain have the shape and dimensions shown below. One supplier is providing a tile border for all of the pools. He needs to know the perimeter of all eight pools to get a cost estimate. Find the total perimeter.

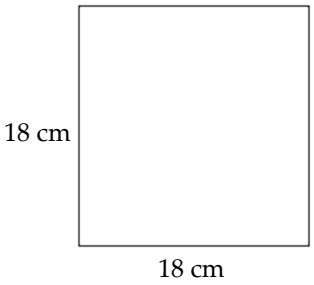


A) 2,250 feet B) 2,960 feet C) 370 feet D) 375 feet

Answer: B

Find the area of the square.

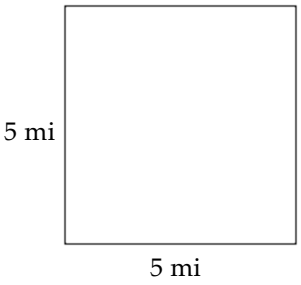
310)



A) 319 sq cm B) 324 sq cm C) 648 sq cm D) 72 sq cm

Answer: B

311)

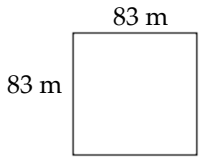


A) 21 sq mi B) 28 sq mi C) 25 sq mi D) 20 sq mi

Answer: C

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312)



A) 166 sq m B) 13,778 sq m C) 332 sq m D) 6,889 sq m

Answer: D

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

difference	**area**	**square root**	**addend**
divisor	**minuend**	**place value**	**factor**
quotient	**subtrahend**	**exponent**	**digits**
sum	**whole numbers**	**perimeter**	**dividend**
average	**product**		

313) The _____ are 0, 1, 2, 3. . .

A) digits B) place value C) factor D) whole numbers

Answer: D

314) The _____ of a polygon is its distance around or the sum of the lengths of its sides.

A) area B) exponent C) perimeter D) product

Answer: C

315) The position of each digit in a number determines its _____.

A) sum B) dividend C) place value D) square root

Answer: C

316) A(n) _____ is a shorthand notation for repeated multiplication of the same factor.

A) exponent B) quotient C) addend D) factor

Answer: A

317) To find the _____ of a rectangle, multiply length times width.

A) perimeter B) area C) product D) sum

Answer: B

318) A(n) _____ of a number is one of two identical factors of the number.

A) minuend B) square root C) subtrahend D) quotient

Answer: B

319) The _____ used to write numbers are 0, 1 ,2 ,3 ,4 ,5 ,6 ,7 ,8, and 9.

A) digits B) whole numbers C) place value D) factor

Answer: A

320) The _____ of a list of numbers is their sum divided by the number of numbers.

A) average B) place value C) area D) perimeter

Answer: A

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321) The 5 above is called the _____.
A) divisor B) quotient C) difference D) dividend
Answer: A

322) The 35 above is called the _____.
A) quotient B) difference C) dividend D) divisor
Answer: C

323) The 7 above is called the _____.
A) quotient B) divisor C) difference D) dividend
Answer: A

324) The 3 above is called the _____.
A) factor B) subtrahend C) product D) addend
Answer: A

325) The 6 above is called the _____.
A) quotient B) sum C) factor D) product
Answer: D

326) The 20 above is called the _____.
A) minuend B) difference C) subtrahend D) addend
Answer: A

327) The 9 above is called the _____.
A) minuend B) difference C) addend D) subtrahend
Answer: D

328) The 11 above is called the _____.
A) difference B) minuend C) addend D) subtrahend
Answer: A

329) The 4 above is called the _____.
A) factor B) minuend C) addend D) sum
Answer: C

330) The 21 above is called the _____.
A) difference B) quotient C) sum D) product
Answer: C

Simplify.

331) Write 94,773 in words.
A) ninety–four thousand, seven hundred seventy–three
B) nine thousand, seven hundred seventy–three
C) ninety–four thousand, seventy–seven hundred, three
D) ninety thousand, seven hundred seventy–three
Answer: A

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332) Write "forty–four thousand five hundred fifty–two" in standard form.

A) 404,552 B) 44,552 C) 440,552 D) 445,052

Answer: B

333) $76 + 38$

A) 115 B) 104 C) 114 D) 113

Answer: C

334) $925 - 574$

A) 351 B) 1,499 C) 343 D) 251

Answer: A

335)

$$\begin{array}{r} 407 \\ \times\ 60 \\ \hline \end{array}$$

A) 23,420 B) 25,420 C) 34,420 D) 24,420

Answer: D

336) $13{,}548 \div 17$

A) 16 B) 796 R 16 C) 796 R 10 D) 796

Answer: B

337) $3^3 \cdot 5^2$

A) 759,375 B) 90 C) 675 D) 225

Answer: C

338) $\sqrt{18} \cdot \sqrt{18}$

A) 324 B) 11 C) 36 D) 18

Answer: D

339) $0 \div 97$

A) 97 B) 1 C) 0 D) undefined

Answer: C

340) $79 \div 0$

A) 1 B) 9 C) 0 D) undefined

Answer: D

341) $(9^2 - 4) \cdot 8$

A) 49 B) 200 C) 360 D) 616

Answer: D

342) $12 + 9 \div 3 \cdot 5 - 9$

A) 18 B) 81 C) 26 D) 36

Answer: A

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343) $\dfrac{100 \div 10 \cdot 2}{(\sqrt{16} - \sqrt{9})^2 + 1}$

A) 20 B) 5 C) 10 D) 40

Answer: C

344) $4[(8 - 5)^2 + (20 - 18)^2] + 11$

A) 4 B) 41 C) 63 D) 96

Answer: C

345) $5{,}351 \cdot 10$

A) 53,510 B) 5,351 C) 53,511 D) 535,110

Answer: A

346) $9{,}000 \cdot 1{,}900$

A) 17,100,000 B) 171,000,000 C) 1,710,000 D) 171,000

Answer: A

347) Round 61,450 to the nearest thousand.

A) 62,000 B) 61,100 C) 61,000 D) 71,000

Answer: C

Estimate the sum or difference by rounding each number to the nearest hundred.

348) $7{,}383 + 4{,}226 + 2{,}965$

A) 14,700 B) 14,500 C) 14,600 D) 14,400

Answer: C

349) $984 - 838$

A) 146 B) 100 C) 1,800 D) 200

Answer: D

Solve.

350) Subtract 6 from 62.

A) 55 B) 57 C) 56 D) 66

Answer: C

351) Find the sum of 34 and 205.

A) 171 B) 6,970 C) 478 D) 239

Answer: D

352) Find the product of 13 and 209.

A) 2,726 B) 377 C) 2,717 D) 2,708

Answer: C

353) Find the quotient of 48 and 11.

A) 4 R 5 B) 5 R 4 C) 3 R 3 D) 4 R 4

Answer: D

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354) Amy teaches Chinese lessons for $95 per student for a 6–week session. From one group of students, she collects $3,325. Find how many students are in the group.

A) 37 students B) 25 students C) 35 students D) 39 students

Answer: C

355) Becky is trading her car in on a new car. The new car costs $24,025. Her car is worth $4,998. How much more money does she need to buy the new car?

A) $19,028 B) $18,927 C) $19,027 D) $19,017

Answer: C

356) The seats in a lecture hall are arranged in 17 rows with 7 seats in each row. Find how many seats are in this room.

A) 112 seats B) 126 seats C) 119 seats D) 129 seats

Answer: C

357) In preparation for his new job, Bryan bought two suits at $179 a piece, five shirts at $25 a piece, two pairs of shoes at $70 a piece, four ties at $26 a piece, and five pairs of socks at $8 a piece. What was the total cost of these items?

A) $785 B) $727 C) $308 D) $767

Answer: D

Find the perimeter and the area of the figure.

358)



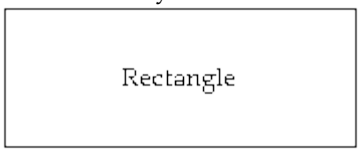
10 inches

A) perimeter: 20 in.; area: 100 sq in. B) perimeter: 40 in.; area: 400 sq in.
C) perimeter: 40 in.; area: 100 sq in. D) perimeter: 100 in.; area: 40 sq in.

Answer: C

359)

36 yards



12 yards

A) perimeter: 96 yd; area: 432 sq yd B) perimeter: 96 yd; area: 864 sq yd
C) perimeter: 48 yd; area: 432 sq yd D) perimeter: 432 yd; area: 96 sq yd

Answer: A

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

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

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101) B
102)
$$\begin{array}{r} 24{,}721 \\ -\ 4090 \\ \hline 20{,}631 \end{array}$$
103) D
104) C
105) D
106) C
107) B
108) D
109) C
110) C
111) A
112) C
113) C
114) D
115) D
116) B
117) A
118) B
119) C
120) B
121) D
122) A
123) C
124) C
125) D
126) C
127) B
128) D
129) B
130) C
131) D
132) C
133) D
134) D
135) D
136) D
137) A
138) A
139) C
140) B
141) A
142) D
143) B
144) A
145) B
146) B
147) A

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

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198) B
199) A
200) C
201) A
202) B
203) A
204) C
205) B
206) D
207) B
208) C
209) D
210) B
211) C
212) C
213) C
214) A
215) D
216) D
217) D
218) D
219) A
220) D
221) C
222) A
223) B
224) A
225) C
226) A
227) C
228) A
229) B
230) A
231) A
232) D
233) D
234) D
235) B
236) A
237) D
238) C
239) A
240) B
241) A
242) C
243) B
244) A
245) C
246) A
247) B

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

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

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348) C
349) D
350) C
351) D
352) C
353) D
354) C
355) C
356) C
357) D
358) C
359) A

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