Business Mathematics 15th edition Clendenen Test Bank

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

Express the number in words.

1) 1,490
   A) ten four thousand, ninety
   B) one thousand, four hundred nine
   C) ten four hundred nine
   D) one thousand, four hundred ninety

   Answer: D

2) 23,302
   A) twenty- three thousand, three hundred two
   B) twenty- three thousand, three hundred twenty
   C) twenty thousand, three hundred two
   D) twenty thousand, three hundred thirty two

   Answer: A

3) 238,060
   A) twenty- three million, eight thousand, sixty
   B) two thousand, thirty- eight hundred six
   C) twenty- three thousand, eight hundred sixty
   D) two hundred thirty- eight thousand, sixty

   Answer: D

4) 8,700,855
   A) eight million, seventy thousand, eight hundred fifty- five
   B) eight million, seven hundred thousand, eight hundred fifty- five
   C) eight million, seven hundred thousand, eight thousand, fifty- five
   D) eight million, seven thousand, eight hundred fifty- five

   Answer: B

5) 93,000,433
   A) nine million, three hundred thousand, four hundred thirty- three
   B) ninety- three million, four thousand, thirty- three
   C) ninety- three thousand, four hundred thirty- three
   D) ninety- three million, four hundred thirty- three

   Answer: D

Round the number as requested.

6) 1,577 to the nearest ten
   A) 1,570
   B) 1,680
   C) 1,580
   D) 1,590

   Answer: C

7) 53,305 to the nearest ten
   A) 53,300
   B) 53,320
   C) 53,410
   D) 53,310

   Answer: D

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8) 544 to the nearest hundred
A) 600
B) 400
C) 500
D) 510

Answer: C

9) 5,036 to the nearest hundred
A) 5,010
B) 5,000
C) 4,900
D) 5,100

Answer: B

10) 91,406 to the nearest hundred
A) 91,500
B) 91,300
C) 91,410
D) 91,400

Answer: D

11) 1,358 to the nearest thousand
A) 900
B) 1,100
C) 1,000
D) 2,000

Answer: C

12) 5,688 to the nearest thousand
A) 6,100
B) 5,890
C) 6,000
D) 7,000

Answer: C

13) 13,020 to the nearest thousand
A) 13,000
B) 14,000
C) 23,000
D) 13,100

Answer: A

14) 90,003 to the nearest thousand
A) 90,100
B) 90,010
C) 90,000
D) 91,000

Answer: C

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15) 733 to the nearest thousand

A) 100
B) 10,000
C) 1000
D) 100,000

Answer: C

Perform the addition.

16)

$$\begin{array}{r} 3{,}733 \\ 1{,}512 \\ +\ 246 \\ \hline \end{array}$$

A) 5,391
B) 1,748
C) 2,467
D) 5,491

Answer: D

17)

$$\begin{array}{r} 698 \\ 26 \\ 5{,}181 \\ 1 \\ +\ 382 \\ \hline \end{array}$$

A) 6,278
B) 4,892
C) 6,188
D) 6,288

Answer: D

18)

$$\begin{array}{r} 78 \\ 35 \\ +\,30 \\ \hline \end{array}$$

A) 163
B) 143
C) 147
D) 133

Answer: B

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19)
422
595
+ 865

A) 1,872
B) 1,882
C) 1,869
D) 1,862

Answer: B

20)
136,683
398,120
+ 14,933

A) 549,736
B) 246,504
C) 549,636
D) 413,043

Answer: A

Perform the subtraction.

21)
6,857
- 545

A) 6,302
B) 6,312
C) 6,222
D) 312

Answer: B

22)
7,896
- 3,243

A) 4,647
B) 7,653
C) 4,653
D) 4,567

Answer: C

23)
9,797
- 5,425

A) 9,372
B) 4,372
C) 4,322
D) 4,362

Answer: B

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24)
$$\begin{array}{r} 557{,}707 \\ -\ 513{,}460 \\ \hline \end{array}$$

A) 1,071,167
B) 34,247
C) 557,807
D) 44,247

Answer: D

25)
$$\begin{array}{r} 696 \\ -\ 111 \\ \hline \end{array}$$

A) 585
B) 807
C) 485
D) 583

Answer: A

26)
$$\begin{array}{r} 57 \\ -\ 42 \\ \hline \end{array}$$

A) 25
B) 99
C) 15
D) 11

Answer: C

27)
$$\begin{array}{r} 558 \\ -\ 52 \\ \hline \end{array}$$

A) 406
B) 502
C) 506
D) 610

Answer: C

28)
$$\begin{array}{r} 77{,}677 \\ -\ 34{,}213 \\ \hline \end{array}$$

A) 47,464
B) 43,458
C) 43,438
D) 43,464

Answer: D

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29)
$$\begin{array}{r} 88{,}758 \\ -\ 1{,}111 \\ \hline \end{array}$$

A) 88,647
B) 87,645
C) 87,647
D) 87,625

Answer: C

Solve the problem.

30) The following chart shows a book publisher's monthly sales by book category for the first quarter of the year. Complete the totals by adding horizontally and vertically.

	Jan	Feb	Mar	Totals
Math	3,966	7,972	3,948	
Science	3,809	6,413	7,499	
English	8,137	3,663	7,297	
History	3,087	7,904	6,044	
Totals				

A)

Jan	Feb	Mar	Totals
			15,886
			17,621
			19,097
			17,135
18,999	25,852	24,888	69,739

B)

Jan	Feb	Mar	Totals
			15,886
			17,721
			19,097
			17,035
18,999	25,952	24,788	69,739

C)

Jan	Feb	Mar	Totals
			15,886
			17,621
			19,097
			17,035
18,999	25,852	24,788	69,639

D)

Jan	Feb	Mar	Totals
			15,886
			17,621
			19,097
			17,135
19,099	25,852	24,788	69,739

Answer: B

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31) The following chart shows Tech Support Inc. monthly sales by region for each of the first six months of the year.

Region	Jan	Feb	Mar	Apr	May	Jun	Totals
East	$35,502	$37,702	$37,749	$43,636	$29,426	$28,340	
Midwest	$52,597	$59,554	$54,133	$51,618	$37,275	$44,455	
West	$45,108	$48,481	$30,181	$52,679	$59,871	$78,885	
Totals							

A)

Jan	Feb	Mar	Apr	May	Jun	Totals
						$184,015
						$255,177
						$236,320
$133,207	$145,737	$122,063	$147,933	$126,572	$151,680	$675,512

B)

Jan	Feb	Mar	Apr	May	Jun	Totals
						$211,355
						$298,632
						$314,205
$133,207	$145,737	$122,063	$147,933	$126,572	$151,680	$824,192

C)

Jan	Feb	Mar	Apr	May	Jun	Totals
						$213,355
						$300,632
						$316,205
$133,207	$145,737	$122,063	$147,933	$126,572	$151,680	$830,192

D)

Jan	Feb	Mar	Apr	May	Jun	Totals
						$212,355
						$299,632
						$315,205
$133,207	$145,737	$122,063	$147,933	$126,572	$151,680	$827,192

Answer: D

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32) The following chart shows e- Train Company's expenses by department for each of the first six months of the year.

Department	Jan	Feb	Mar	Apr	May	Jun	Totals
Office	$27,509	$38,726	$40,707	$38,400	$25,029	$28,659	
Sales	$55,321	$75,181	$72,604	$65,428	$78,433	$59,119	
Production	$30,602	$20,290	$31,311	$33,940	$37,466	$28,198	
Totals							

A)

Jan	Feb	Mar	Apr	May	Jun	Totals
						$198,030
						$405,086
						$180,807
$113,432	$134,197	$144,622	$137,768	$140,928	$115,976	$783,923

B)

Jan	Feb	Mar	Apr	May	Jun	Totals
						$199,030
						$406,086
						$181,807
$113,432	$134,197	$144,622	$137,768	$140,928	$115,976	$786,923

C)

Jan	Feb	Mar	Apr	May	Jun	Totals
						$170,371
						$346,967
						$153,609
$113,432	$134,197	$144,622	$137,768	$140,928	$115,976	$670,947

D)

Jan	Feb	Mar	Apr	May	Jun	Totals
						$200,030
						$407,086
						$182,807
$113,432	$134,197	$144,622	$137,768	$140,928	$115,976	$789,923

Answer: B

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33) The following chart shows HealthTech's monthly sales by region for each of the first six months of the year.

Region	Jan	Feb	Mar	Apr	May	Jun	Totals
East	$94,660	$92,402	$90,146	$88,149	$78,562	$80,228	
Midwest	$55,928	$50,898	$47,224	$37,979	$57,427	$38,364	
West	$77,813	$66,548	$58,463	$47,905	$48,169	$81,159	
Totals							

A)

Jan	Feb	Mar	Apr	May	Jun	Totals
						$443,919
						$249,456
						$298,898
$228,401	$209,848	$195,833	$174,033	$184,158	$199,751	$992,273

B)

Jan	Feb	Mar	Apr	May	Jun	Totals
						$525,147
						$288,820
						$381,057
$228,401	$209,848	$195,833	$174,033	$184,158	$199,751	$1,195,024

C)

Jan	Feb	Mar	Apr	May	Jun	Totals
						$524,147
						$287,820
						$380,057
$228,401	$209,848	$195,833	$174,033	$184,158	$199,751	$1,192,024

D)

Jan	Feb	Mar	Apr	May	Jun	Totals
						$523,147
						$286,820
						$379,057
$228,401	$209,848	$195,833	$174,033	$184,158	$199,751	$1,189,024

Answer: C

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34) The following chart shows Maid- for- You's monthly sales by salesperson for each of the first six months of the year.

Salesperson	Jan	Feb	Mar	Apr	May	Jun	Totals
Kathy	$24,958	$19,719	$24,842	$15,173	$16,639	$19,896	
Brenda	$25,982	$27,737	$27,150	$28,740	$27,457	$27,084	
Gesela	$31,523	$40,399	$39,908	$38,538	$32,253	$41,691	
Totals							

A)

Jan	Feb	Mar	Apr	May	Jun	Totals
						$122,227
						$165,150
						$225,312
$82,463	$87,855	$91,900	$82,451	$76,349	$88,671	$512,689

B)

Jan	Feb	Mar	Apr	May	Jun	Totals
						$120,227
						$163,150
						$223,312
$82,463	$87,855	$91,900	$82,451	$76,349	$88,671	$506,689

C)

Jan	Feb	Mar	Apr	May	Jun	Totals
						$101,331
						$137,066
						$182,621
$82,463	$87,855	$91,900	$82,451	$76,349	$88,671	$421,018

D)

Jan	Feb	Mar	Apr	May	Jun	Totals
						$121,227
						$164,150
						$224,312
$82,463	$87,855	$91,900	$82,451	$76,349	$88,671	$509,689

Answer: D

Multiply.

35)
$$\begin{array}{r} 604 \\ \times\ 48 \\ \hline \end{array}$$

A) 28,982
B) 29,092
C) 28,992
D) 29,002

Answer: C

36)
$$\begin{array}{r} 186 \\ \times\ 271 \\ \hline \end{array}$$

A) 60,406
B) 49,406
C) 50,506
D) 50,406

Answer: D

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37) 5,795
× 425

A) 2,462,975
B) 2,472,875
C) 2,461,875
D) 2,462,875

Answer: D

38) 25,764
× 477

A) 12,288,428
B) 12,299,428
C) 12,289,528
D) 12,289,428

Answer: D

39) 6,847
× 3,285

A) 22,502,395
B) 22,491,395
C) 22,492,495
D) 22,492,395

Answer: D

40) 649
× 300

A) 194,700
B) 193,700
C) 184,700
D) 192,700

Answer: A

41) 507
× 200

A) 101,400
B) 102,400
C) 100,400
D) 111,400

Answer: A

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42)
$$\begin{array}{r} 437 \\ \times\ 900 \\ \hline \end{array}$$

A) 394,300
B) 392,300
C) 393,300
D) 403,300

Answer: C

43)
$$\begin{array}{r} 3{,}080 \\ \times\ 2{,}200 \\ \hline \end{array}$$

A) 6,786,000
B) 6,776,000
C) 6,777,000
D) 6,775,000

Answer: B

44)
$$\begin{array}{r} 5{,}005 \\ \times\ 700 \\ \hline \end{array}$$

A) 3,503,500
B) 3,502,500
C) 3,513,500
D) 3,504,500

Answer: A

Estimate by using front- end rounding.

45)
$$\begin{array}{r} 8{,}656 \\ 55 \\ 426 \\ +\ 2{,}092 \\ \hline \end{array}$$

A) 11,240
B) 11,229
C) 11,230
D) 11,460

Answer: D

46)
$$\begin{array}{r} 956 \\ -\ 745 \\ \hline \end{array}$$

A) 200
B) 300
C) 211
D) 210

Answer: B

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47)
32
65
26
78
+ 66

A) 280
B) 270
C) 300
D) 267

Answer: A

84
48) - 27

A) 60
B) 50
C) 57
D) 110

Answer: B

95
49) × 53

A) 5,040
B) 5,000
C) 5,035
D) 150

Answer: B

50)
798
961
719
157
+ 993

A) 3,700
B) 3,630
C) 3,628
D) 3,600

Answer: A

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51)
$$\begin{array}{r} 640 \\ -\ 177 \\ \hline \end{array}$$

A) 463
B) 400
C) 800
D) 500

Answer: B

52)
$$\begin{array}{r} 827 \\ \times 120 \\ \hline \end{array}$$

A) 80,000
B) 99,200
C) 99,240
D) 900

Answer: A

Multiply, omitting zeros in the calculation and then replacing them at the right of the product to obtain the final answer.

53)
$$\begin{array}{r} 400 \\ \times\ 800 \\ \hline \end{array}$$

A) 330,000
B) 321,000
C) 320,000
D) 319,000

Answer: C

54)
$$\begin{array}{r} 7{,}200 \\ \times 800 \\ \hline \end{array}$$

A) 5,761,000
B) 5,760,000
C) 5,759,501
D) 5,759,000

Answer: B

55)
$$\begin{array}{r} 80{,}000 \\ \times\ \ 5{,}000 \\ \hline \end{array}$$

A) 399,999,501
B) 400,001,000
C) 400,000,000
D) 399,999,000

Answer: C

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Divide.

56) $7\overline{)567}$

A) 81
B) 72
C) 71
D) 82

Answer: A

57) $5\overline{)196}$

A) 39 R1
B) 39 R4
C) 40
D) 39

Answer: A

58) $5\overline{)643}$

A) 128
B) 128 R3
C) 128 R4
D) 131

Answer: B

59) $4\overline{)7613}$

A) 1903
B) 1903 R3
C) 1,904
D) 1903 R1

Answer: D

60) $6\overline{)1605}$

A) 267
B) 266 R9
C) 267 R2
D) 267 R3

Answer: D

61) $13\overline{)281}$

A) 21 R8
B) 19 R7
C) 20 R4
D) 21

Answer: A

62) $37\overline{)9,740}$

A) 266 R29
B) 263 R9
C) 266 R5
D) 263

Answer: B

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63) $44\overline{)43{,}274}$

A) 983 R16
B) 22
C) 983
D) 983 R22

Answer: D

Divide, dropping zeros from the divisor.

64) $90\overline{)1440}$

A) 17
B) 16
C) 6
D) 7

Answer: B

65) $40\overline{)2060}$

A) 51
B) 51 R30
C) 53
D) 51 R20

Answer: D

66) $60\overline{)5650}$

A) 95
B) 94
C) 94 R50
D) 94 R10

Answer: D

Rewrite the number as indicated.

67) A certain exotic sports car costs three hundred twelve thousand, seven hundred ninety- nine dollars. Rewrite the number using digits.

A) 312,799,000
B) 31,279
C) 3,207,990
D) 312,799

Answer: D

68) A company had net revenues of $2,900,725 in one year. Write this number using words.

A) two million, nine hundred thousand, seven thousand, twenty- five
B) two million, ninety thousand, seven hundred twenty- five
C) two million, nine hundred thousand, seven hundred twenty- five
D) two million, nine thousand, seven hundred twenty- five

Answer: C

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Solve the problem.

69) On a normal week day the vending machines at Green Lake College dispense 1,260 sodas, 450 candy bars, 540 snack items, and 210 cups of coffee. If it takes Jim Lewis six hours to restock the vending machines, how many items does he restock each hour?

A) 335 items
B) 820 items
C) 320 items
D) 410 items

Answer: D

70) During one year 25 new employees started working at McIntosh Manufacturing Company. At the beginning of the year there are 383 employees in the factory and 48 employees in the office. What is the total number of employees at the end of the year?

A) 406 employees
B) 73 employees
C) 431 employees
D) 456 employees

Answer: D

71) Jose Ramirez, a salesperson for a chemical company, travelled 1,625 miles on Monday, 235 miles on Tuesday, and 2,120 miles on Thursday. Find the total number of miles he travelled during these three days.

A) 3,745 mi
B) 3,510 mi
C) 3,980 mi
D) 3,880 mi

Answer: C

72) Sales at Andrea's Formal Wear Shop were $1,026 this week. This is $188 less than the sales last week. What were last week's sales?

A) $1,203
B) $1,225
C) $838
D) $1,214

Answer: D

73) A baby weighed 8 pounds at birth and gained 2 pounds a month. How much did the baby gain in 4 months?

A) 16 lb
B) 40 lb
C) 14 lb
D) 8 lb

Answer: D

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74) Brandy's Gift House pays employees for each gift they gift wrap. Assume they are paid as follows:

gifts 1- 10	$10 each
gifts 11- 15	$11 each
gifts 16 and up	$19 each

If Lee wraps 11 gifts, what are her gross earnings?

A) $119
B) $110
C) $111
D) $121

Answer: C

75) Gina is buying a used car that has an advertised price of $3,000. She is buying the car on credit and must make a down payment of $1,050 and 24 monthly payments of $111. What is the total cost of the car?

A) $3,714
B) $3,603
C) $3,825
D) $3,111

Answer: A

76) Jack borrowed $1,240 from his brother. Jack's brother wants 12 monthly payments of $120 to repay the loan. How much extra is Jack's brother charging for the loan?

A) $200
B) $1,440
C) $80
D) $1,540

Answer: A

77) The stock market gained 33 points on Monday. It had closed the previous Friday at 2,760 points. How many points did the market close at on Monday?

A) 2,727 points
B) 2,793 points
C) 2,795 points
D) 2,726 points

Answer: B

78) During one year 11 new employees started working at Macintosh Manufacturing Company. At the beginning of the year there are 339 employees in the factory and 40 employees in the office. What is the total number of employees at the end of the year?

A) 51 employees
B) 368 employees
C) 379 employees
D) 390 employees

Answer: D

79) Jose Ramirez, a salesperson for a chemical company, travelled 1,764 miles on Monday, 203 miles on Tuesday, and 2,030 miles on Thursday. Find the total number of miles he travelled during these three days.

A) 3,794 mi
B) 3,997 mi
C) 3,591 mi
D) 3,897 mi

Answer: B

Business Mathematics 15th edition Clendenen Test Bank

80) Ultimate Lighting Company, based in the United States, has 5 employees in Belgium, 505 employees in Hong Kong, 61 employees in Argentina, and 43 employees in Australia. What is the total number of employees working outside of the United States?

A) 615 employees
B) 614 employees
C) 604 employees
D) 609 employees

Answer: B

81) Sales at Andrea's Formal Wear Shop were $978 this week. This is $188 less than the sales last week. What were last week's sales?

A) $1,155
B) $1,166
C) $790
D) $1,177

Answer: B

82) Lesley purchased office supplies for her business. She spent $13 on paper, $8 on pens, $6 on folders, and $44 on computer disks. What was the total amount that she spent?

A) $67
B) $63
C) $71
D) $76

Answer: C

83) Corn production increased 7,000 pounds over last year on Steve's farm. Last year the farm produced 36,000 pounds. How much corn did Steve's farm produce this year?

A) 51,000 lb
B) 43,000 lb
C) 36,000 lb
D) 29,000 lb

Answer: B

84) Ray's gross pay is $325.10 a week. $46 is withheld for federal income tax, $24.42 for FICA tax, and $11.38 for other deductions. How much of his pay is left?

A) $406.90
B) $233.30
C) $243.30
D) $81.80

Answer: C

85) Carla's gross pay is $193 a week. $13 was withheld for federal income tax, $14 for FICA tax, and $7 for other deductions. How much of her pay is left?

A) $159
B) $34
C) $169
D) $227

Answer: A

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86) If the temperature in the city has risen 5° each day, how much has it risen in 5 days?
A) 30°
B) 25°
C) 10°
D) 35°

Answer: B

87) Each year, 666 people move from Babbittown. How many people have moved from the town in 7 years?
A) 4,672 people
B) 4,662 people
C) 5,328 people
D) 4,562 people

Answer: B

88) Brandy's Gift House pays employees for each gift they gift wrap. Assume they are paid as follows:

gifts 1- 10	$4.00 each
gifts 11- 15	$5.00 each
gifts 16 and up	$6.00 each

If Lee wraps 12 gifts, what are her gross earnings?
A) $52.00
B) $50.00
C) $48.00
D) $60.00

Answer: B

89) A group of 3 people wants to buy a boat. The boat costs $438. If they all pay the same amount, how much is each person's share?
A) $156
B) $136
C) $109
D) $146

Answer: D

90) The city bridge has 5 lanes, all carrying equal numbers of cars. If 190 cars drive across the bridge, how many cars cross in each lane?
A) 39 cars
B) 43 cars
C) 38 cars
D) 195 cars

Answer: C

91) Richard's team wants to plant 783 trees in 9 months. How many trees per month do they need to plant?
A) 174 trees
B) 96 trees
C) 87 trees
D) 97 trees

Answer: C

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92) Alicia sold $2,940 of paintings at the art fair. If she sold 5 paintings total, and they all sold for the same amount, what was the price of one painting?
A) $488
B) $582
C) $623
D) $588

Answer: D

93) Each gallon of shingle stain covers 120 square feet. How many gallons are needed to cover 840 square feet?
A) 6 gal
B) 7 gal
C) 5 gal
D) 8 gal

Answer: B

94) One cook can make enough food for 350 people a night. How many cooks are needed to feed 2,450 people a night?
A) 7 cooks
B) 5 cooks
C) 6 cooks
D) 8 cooks

Answer: A

95) David's company has to ship 4,400 boxes of sprinklers. If a truck can hold 550 boxes, how many truckloads does he need to ship all the boxes?
A) 9 truckloads
B) 6 truckloads
C) 8 truckloads
D) 7 truckloads

Answer: C

96) Gina is buying a used car that has an advertised price of $5,000. She is buying the car on credit and must make a down payment of $200 and 24 monthly payments of $114. What is the total cost of the car?
A) $2,836
B) $2,926
C) $2,736
D) $2,936

Answer: D

97) A television offer advertised a set of knives for $15 down and $4 a month for 6 months. What is the total cost of the knives?
A) $49
B) $24
C) $39
D) $29

Answer: C

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98) A travel agent arranged a payment plan for a client. It required a down payment of $300 and 9 monthly payments of $561. What was the total cost of the plan?
A) $5,249
B) $5,149
C) $5,049
D) $5,349

Answer: D

99) A salesperson earned $300 a week plus a bonus of $17 for each service contract sold. What is the weekly pay if 8 service contracts were sold?
A) $136
B) $536
C) $300
D) $436

Answer: D

100) Jack borrowed $250 from his brother. Jack's brother wants 6 monthly payments of $75 to repay the loan. How much extra is Jack's brother charging for the loan?
A) $200
B) $450
C) $125
D) $550

Answer: A

101) A country club wants to provide seating for 286 people in its banquet room. If the club has 12 tables that seat 8 people, how many tables does it need that seat 10 people?
A) 18 tables
B) 19 tables
C) 21 tables
D) 20 tables

Answer: B

Write the decimal in words.

102) 6.5
A) six and five tenths
B) six and five thousandths
C) six and five hundredths
D) six and five millionths

Answer: A

103) .27
A) twenty- seven millionths
B) twenty- seven tenths
C) twenty- seven hundredths
D) twenty- seven thousandths

Answer: C

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104) 9.89
A) nine and eighty- nine hundredths
B) nine and eighty- nine millionths
C) nine and eighty- nine tenths
D) nine and eighty- nine thousandths

Answer: A

105) 8.903
A) eight and ninety tenths and three thousandths
B) eight and nine hundred three thousandths
C) eight and ninety- three thousandths
D) eight and ninety thousand three hundredths

Answer: B

106) 4.00302
A) four and three hundred two hundred- thousandths
B) four and thirty thousand two hundredths
C) four and three hundred two ten- thousandths
D) four and thirty- two hundred- thousandths

Answer: A

Write the decimal using numbers.

107) seven tenths
A) 0.07
B) 0.007
C) 0.7
D) 70

Answer: C

108) three and fourteen hundredths
A) 3.0014
B) 3.14
C) 314
D) 3.014

Answer: B

109) nineteen and eight hundredths
A) 19.8
B) 1,908
C) 19.008
D) 19.08

Answer: D

110) thirteen and one thousandths
A) 13.01
B) 13.001
C) 13.0001
D) 13.1

Answer: B

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111) six and eleven thousandths
A) 6.0011
B) 611
C) 6.011
D) 6.11
Answer: C

112) three hundred eleven thousandths
A) 300.0011
B) 300.011
C) 0.311
D) 3,110
Answer: C

113) seven hundred seventeen ten- thousandths
A) 700.017
B) 0.0717
C) 700.0017
D) 0.717
Answer: B

114) one hundred and eleven ten- thousandths
A) 0.111
B) 0.0111
C) 100.011
D) 100.0011
Answer: D

115) eight million, six hundred and fourteen ten- thousandths
A) 8,000,600.0014
B) 8600.0014
C) 8,000,600.014
D) 0.00800614
Answer: A

116) fifteen and three tenths
A) 15.003
B) 0.153
C) 15.03
D) 15.3
Answer: D

Write the unit cost, rounded to the nearest cent.
117) If 7 books cost $8.59, then one book costs $1.2271.
A) $1.13
B) $8.59
C) $1.23
D) $1.33
Answer: C

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118) If 18 notebooks cost $28.12, then one notebook costs $1.5622.
A) $1.56
B) $1.46
C) $28.12
D) $1.66

Answer: A

119) If 14 compact discs cost $113.36, then one compact disc costs $8.0971.
A) $113.36
B) $8.20
C) $8.00
D) $8.10

Answer: D

120) If 342 candy bars cost $447.77, then one candy bar costs $1.3093.
A) $1.41
B) $1.21
C) $447.77
D) $1.31

Answer: D

121) If 27 cheeseburgers cost $84.91, then one cheeseburger costs $3.1448.
A) $3.24
B) $3.04
C) $84.91
D) $3.14

Answer: D

Round the number to the nearest thousandth, nearest hundredth, and nearest tenth. Remember to round from the original number.

122) 48.634
A) 48.64, 48.7, 49
B) 48.63, 48.6, 48
C) 48.635, 48.64, 49
D) 48.634, 48.63, 48.6

Answer: D

123) 0.6097
A) 0.61, 0.61, 0.6
B) 0.6097, 0.609, 0.60
C) 0.61, 0.60, 0.7
D) 0.609, 0.60, 0.6

Answer: A

124) 518.537
A) 518.537, 518.54, 518
B) 518.537, 518.53, 519
C) 518.54, 518.5, 518
D) 518.537, 518.54, 518.5

Answer: D

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125) 3.973
A) 3.973, 4.00, 4
B) 3.974, 3.97, 3.9
C) 3.973, 3.97, 4
D) 3.97, 3.9, 3

Answer: C

Round the amount to the nearest cent.

126) $9.9291
A) $9.93
B) $9.929
C) $10.03
D) $9.92

Answer: A

127) $61.537
A) $62.00
B) $61.54
C) $61.53
D) $61.50

Answer: B

128) $97.68500
A) $97.69
B) $97.689
C) $97.70
D) $97.68

Answer: A

129) $2.48617
A) $2.48
B) $2.50
C) $2.49
D) $2.486

Answer: C

130) $14.8092
A) $14.81
B) $14.8
C) $14.80
D) $14.82

Answer: A

Round the figure to the nearest dollar.

131) $374.19
A) $374.20
B) $375
C) $374
D) $374.19

Answer: C

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132) $8,449.61
A) $8,450
B) $8,449.6
C) $8,449.61
D) $8,449

Answer: A

133) $489.01
A) $488
B) $489
C) $490
D) $489.10

Answer: B

134) $391.14
A) $391
B) $390
C) $391.24
D) $392

Answer: A

135) $111.66
A) $112
B) $111
C) $110.66
D) $111.60

Answer: A

136) $81,559.52
A) $82,000
B) $81,561
C) $81,559.5
D) $81,560

Answer: D

137) $6,999,180.72
A) $6,999,000
B) $6,999,182
C) $6,999,180.7
D) $6,999,181

Answer: D

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First use front- end rounding to write an estimate of the answer, and then add the decimals to obtain an exact answer.

138) Estimate Problem

$$\begin{array}{r} \\ \\ + \end{array} \qquad \begin{array}{r} 21.76 \\ 12.9 \\ +\ 9.2 \end{array}$$

A) Estimate: 40, exact: 44.86
B) Estimate: 39, exact: 42.86
C) Estimate: 39, exact: 33.86
D) Estimate: 39, exact: 43.86

Answer: D

139) Estimate Problem

$$\begin{array}{r} \\ \\ + \end{array} \qquad \begin{array}{r} 502.45 \\ 4.02 \\ +\ 4859.26 \end{array}$$

A) Estimate: 5504, exact: 4365.73
B) Estimate: 5504, exact: 5365.73
C) Estimate: 5504, exact: 5365.63
D) Estimate: 5504, exact: 5355.63

Answer: B

140) Estimate Problem

$$\begin{array}{r} \\ \\ + \end{array} \qquad \begin{array}{r} 6.2 \\ 2.8446 \\ +\ 8.5498 \end{array}$$

A) Estimate: 18, exact: 17.5944
B) Estimate: 16, exact: 16.5844
C) Estimate: 17, exact: 17.5844
D) Estimate: 16, exact: 16.5944

Answer: A

Perform the addition.

141) 1.674 + 4.243
A) 2.569
B) - 2.569
C) 6.017
D) 5.917

Answer: D

142) 1.3 + 7.48
A) 6.18
B) 8.88
C) 8.78
D) - 6.18

Answer: C

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143) 19.5 + 14.1
A) 33.6
B) - 5.4
C) 5.4
D) 33.7

Answer: A

144) 16 + 19.97
A) 3.97
B) 35.97
C) 36.07
D) - 3.97

Answer: B

145) 7.6 + 7.378
A) 14.978
B) 15.078
C) 0.222
D) - 0.222

Answer: A

146) 10 + 7.83 + 0.924
A) 16.906
B) 1.246
C) 18.754
D) 3.094

Answer: C

147) 20.26 + 9.48 + 0.691
A) 11.471
B) 30.431
C) 10.089
D) 29.049

Answer: B

148) 13.6 + 2.13 + 0.0118 + 0.784
A) 16.5258
B) 12.2422
C) 12.2658
D) 16.5022

Answer: A

149) 22.45 + 102.4 + 3.71 + 0.0877 + 0.732
A) 121.7843
B) 129.2043
C) 129.3797
D) 121.9597

Answer: C

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Solve the problem.

150) Evelyn measured two rooms of her apartment and found that she needed 15.3 square meters of wallpaper for one room and 43.5 square meters for the other. How much wallpaper did she need?

A) 58.8 m2
B) 68.8 m2
C) 58.9 m2
D) 117.6 m2

Answer: A

151) The pharmacist mixed 5.73 grams of one drug with 3.136 grams of another drug. What was the weight of the mixture?

A) 6.272 g
B) 8.866 g
C) 9.966 g
D) 11.46 g

Answer: B

152) It took three assembly- line workers 6.03 seconds, 5.387 seconds, and 8.8 seconds to assemble a product. How many seconds in all did they work?

A) 8.157 sec
B) 14.83 sec
C) 20.217 sec
D) 11.417 sec

Answer: C

153) Jennifer has $311.67 in her savings account. If she withdraws $61.63, what is the new balance in her account?

A) $250.67
B) $372.67
C) $250.04
D) $373.30

Answer: C

154) The original price on a shirt is $10.78. If you receive a $3.66 discount, how much does the shirt cost?

A) $14.44
B) $7.12
C) $13.78
D) $7.78

Answer: B

155) How much money is saved at a $50.56 discount price rather than a $88.01 list price?

A) $38.45
B) $38.55
C) $37.55
D) $37.45

Answer: D

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156) If the list price is $49.76 and if $13.47 is saved by buying from a discount catalog, what is the discount price for the item?

A) $62.23
B) $36.39
C) $63.23
D) $36.29

Answer: D

157) If you save $43.99 off the list price buying from a discount catalog, and the list price is $143.52, what is the discount price?

A) $180.00
B) $187.51
C) $98.53
D) $99.53

Answer: D

158) If the list price is $120.23 and the discount price is $104.32, how much is saved by buying at discount?

A) $15.91
B) $25.91
C) $16.91
D) $26.91

Answer: A

159) If you save $18.48 by buying an item from a discount catalog when the list price is $115.69, what is the discount price?

A) $97.21
B) $134.07
C) $96.21
D) $134.17

Answer: A

First use front- end rounding to write an estimate of the answer, and then subtract the decimals to obtain an exact answer.

160) Estimate Problem

$$\begin{array}{r} \\ - \\ \hline \end{array} \qquad \begin{array}{r} 36.92 \\ - \ 1.29 \\ \hline \end{array}$$

A) Estimate: 39, exact: 35.77
B) Estimate: 39, exact: 35.63
C) Estimate: 39, exact: 35.73
D) Estimate: 37, exact: 35.73

Answer: B

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161) Estimate Problem

$$\begin{array}{r} \\ - \quad _____ \end{array} \qquad \begin{array}{r} 61.51 \\ - \quad 5.15 \end{array}$$

A) Estimate: 55, exact: 56.36
B) Estimate: 65, exact: 66.46
C) Estimate: 65, exact: 65.36
D) Estimate: 55, exact: 56.46

Answer: A

Solve the problem.

162) A manager of a local restaurant had a bank balance of $3,545.17 on October 1. During October, the manager deposited $50,721.92 received from sales, $2,504.38 received as credits from suppliers, and $58.25 as a county tax refund. He paid out $25,587.64 to suppliers, $4,234.43 for rent and utilities, and $10,607.85 for salaries. How much did the manager deposit in October? How much did the manager pay out?

A) Deposits: $56,829.72
Paid out: $36,884.75
B) Deposits: $56,829.72
Paid out: $40,429.92
C) Deposits: $53,284.55
Paid out: $36,884.75
D) Deposits: $53,284.55
Paid out: $40,429.92

Answer: D

163) A manager of a local restaurant had a bank balance of $3,990.73 on October 1. During October, the manager deposited $56,818.83 received from sales, $2,497.83 received as credits from suppliers, and $84.33 as a county tax refund. He paid out $23,958.73 to suppliers, $4,138.28 for rent and utilities, and $10,569.63 for salaries. What was the manager's final balance at the end of October?

A) $16,743.62
B) $24,725.08
C) $20,734.35
D) $59,400.99

Answer: B

First use front- end rounding to write an estimate of the answer, and then multiply fully to obtain an exact answer.

164) Estimate Problem

$$\begin{array}{r} \\ \times \quad _____ \end{array} \qquad \begin{array}{r} 26.5 \\ \times \quad 2.6 \end{array}$$

A) Estimate: 90, exact: 69.9
B) Estimate: 9, exact: 6.99
C) Estimate: 90, exact: 68.9
D) Estimate: 9, exact: 6.89

Answer: C

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165) Estimate Problem

$$\begin{array}{r} \\ \times \quad\quad \\ \hline \end{array} \qquad \begin{array}{r} 7.3 \\ \times \quad 38 \\ \hline \end{array}$$

A) Estimate: 279, exact: 276.4
B) Estimate: 28, exact: 27.74
C) Estimate: 281, exact: 278.4
D) Estimate: 280, exact: 277.4

Answer: D

166) Estimate Problem

$$\begin{array}{r} \\ \times \quad\quad \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ \times \quad 5 \\ \hline \end{array}$$

A) Estimate: 0.4, exact: 9.9
B) Estimate: 1, exact: 1
C) Estimate: 4, exact: 9
D) Estimate: 10, exact: 10

Answer: D

167) Estimate Problem

$$\begin{array}{r} \\ \times \quad\quad \\ \hline \end{array} \qquad \begin{array}{r} 81.6 \\ \times \quad 11.11 \\ \hline \end{array}$$

A) Estimate: 800, exact: 906.576
B) Estimate: 80, exact: 90.6576
C) Estimate: 810, exact: 905.576
D) Estimate: 80, exact: 9,065.76

Answer: A

168) Estimate Problem

$$\begin{array}{r} \\ \times \quad\quad \\ \hline \end{array} \qquad \begin{array}{r} 6.302 \\ \times \quad 5.03 \\ \hline \end{array}$$

A) Estimate: 300, exact: 316.9906
B) Estimate: 3, exact: 3.169906
C) Estimate: 300, exact: 3,169.906
D) Estimate: 30, exact: 31.69906

Answer: D

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Perform the multiplication.

169)
$$\begin{array}{r} 0.560 \\ \times\ 5.6 \\ \hline \end{array}$$

A) 6
B) 6.16
C) 3.136
D) 3

Answer: C

170)
$$\begin{array}{r} 41.1 \\ \times\ 1.5 \\ \hline \end{array}$$

A) 61.65
B) 62.75
C) 42.6
D) 61.76

Answer: A

171)
$$\begin{array}{r} 382 \\ \times\ 0.244 \\ \hline \end{array}$$

A) 93.319
B) 93.208
C) 93.308
D) 93.318

Answer: B

172)
$$\begin{array}{r} 8.9 \\ \times 728 \\ \hline \end{array}$$

A) 6,479.2
B) 6,480.3
C) 6,479.3
D) 6,479.31

Answer: A

173)
$$\begin{array}{r} 0.003 \\ \times\ 0.2 \\ \hline \end{array}$$

A) 0.006
B) 0.0006
C) 0.000006
D) 0.00006

Answer: B

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174) $\begin{array}{r} 0.204 \\ \times\ 0.6 \\ \hline \end{array}$

A) 1.224
B) 12.24
C) 0.1224
D) 0.001224

Answer: C

175) $\begin{array}{r} 0.105 \\ \times\ 0.04 \\ \hline \end{array}$

A) 0.000042
B) 0.42
C) 0.0042
D) 0.00042

Answer: C

176) $\begin{array}{r} 0.02 \\ \times\ 0.05 \\ \hline \end{array}$

A) 0.00001
B) 0.1
C) 0.01
D) 0.001

Answer: D

177) $\begin{array}{r} 0.088 \\ \times\ 0.22 \\ \hline \end{array}$

A) 1.936
B) 0.01936
C) 0.001936
D) 0.0001936

Answer: B

178) $\begin{array}{r} 0.0013 \\ \times\ \ 5.7 \\ \hline \end{array}$

A) 0.0000741
B) 0.000741
C) 0.0741
D) 0.00741

Answer: D

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Find the gross pay at the given rate. Round to the nearest cent.

179) 20.3 hours at $8.25 per hour

A) $159.23
B) $175.73
C) $172.48
D) $167.48

Answer: D

180) 31.1 hours at $8.55 per hour

A) $257.36
B) $265.91
C) $270.91
D) $274.46

Answer: B

181) 20.9 hours at $12.25 per hour

A) $268.28
B) $261.03
C) $243.78
D) $256.03

Answer: D

182) 11.0 hours at $6.77 per hour and 6.2 hours at $12.03 per hour

A) $139.06
B) $159.06
C) $159.16
D) $149.06

Answer: D

183) 7.0 hours at $7.10 per hour and 12.5 hours at $14.77 per hour

A) $244.43
B) $234.33
C) $244.33
D) $224.33

Answer: B

Perform the indicated operation.

184) 5.85 ÷ 0.09

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

Answer: B

185) 21.58 ÷ 8.3

A) 3.6
B) 26
C) 0.26
D) 2.6

Answer: D

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186) $0.234 \div 39$

A) 0.007
B) 0.005
C) 0.006
D) 0.0059

Answer: C

187) $36\overline{)8.69}$ (Round to the nearest hundredths when necessary.)

A) 0.02
B) 0.07
C) 0.24
D) 0.74

Answer: C

188) $9.89 \div 0.054$ (Round to the nearest hundredths when necessary.)

A) 18.32
B) 183.65
C) 183.15
D) 18.37

Answer: C

189) $18\overline{)130.897}$ (Round to the nearest hundredths when necessary.)

A) 7.77
B) 7.27
C) 0.78
D) 0.73

Answer: B

190) $133.37 \div 8.8$ (Round to the nearest hundredths when necessary.)

A) 15.66
B) 15.16
C) 1.52
D) 1.57

Answer: B

191) $8.025 \div 6.1$ (Round to the nearest hundredths when necessary.)

A) 1.82
B) 0.18
C) 1.32
D) 0.13

Answer: C

192) $5.89\overline{)367}$ (Round to the nearest thousandths when necessary.)

A) 6.231
B) 62.309
C) 6.281
D) 62.809

Answer: B

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193) 1,769.39 ÷ 0.097 (Round to the nearest thousandths when necessary.)
A) 18,241.634
B) 1,824.163
C) 18,241.134
D) 1,824.113

Answer: C

Solve the problem.

194) A stockbroker bought 15 shares of stock for $20.35 each. What was the total amount of the purchase?
A) $305.15
B) $305.25
C) $305.36
D) $305.35

Answer: B

195) A grocer sold 23 bags of potatoes for $1.38 each. What was the total amount of the sale?
A) $31.74
B) $32.84
C) $31.75
D) $31.84

Answer: A

196) A bakery sold 73 pies for $3.17 each. What was the total amount of the sale?
A) $232.51
B) $231.41
C) $231.51
D) $231.42

Answer: B

197) John earns $14.10/hour. If he works 10 hours, how much will he earn?
A) $141.01
B) $142.10
C) $141.10
D) $141.00

Answer: D

198) BT&T charges $0.34 for the first minute and $0.17 for each additional minute for a long- distance call. How much will a 25 minute long- distance call cost?
A) $8.50
B) $4.59
C) $4.42
D) $4.25

Answer: C

199) A car rental company charges $17 per day and $0.37 per mile to rent a car. What is the total bill if a car is rented for 4 days and is driven 111 miles?
A) $1,928.07
B) $26.93
C) $109.07
D) $69.48

Answer: C

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200) Scrambled Electronics will finance a $255 TV set for $50 down and $36.05 a month for 6 months. How much money can you save by paying cash for the TV set?

A) $38.70
B) $88.70
C) $266.30
D) $11.30

Answer: D

201) Jake has a cable that is 40.8 feet long. He wants to cut it into pieces that are 5.1 feet long. How many 5.1- foot pieces will he get from the cable?

A) 80 pieces
B) 7 pieces
C) 9 pieces
D) 8 pieces

Answer: D

202) June has a strip of paper 21.6 inches long. She wants to cut it into strips that are 3.6 inches long. How many 3.6- inch strips will she get from the paper?

A) 60 pieces
B) 5 pieces
C) 7 pieces
D) 6 pieces

Answer: D

203) Jessie has a ribbon that is 3 yards long. He wants to cut it into pieces that are 0.2 yards long. How many 0.2- yard pieces will he get from the ribbon?

A) 16 pieces
B) 15 pieces
C) 14 pieces
D) 150 pieces

Answer: B

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

Provide an appropriate response.

204) What are the ways to round off a number?

Answer: If the digit to the right of the one you are rounding to is 5 or larger add 1 to the digit you are rounding to. If the digit is 4 or smaller, do not change it. Drop all digits to the right of the digit you are rounding to. Replace each dropped digit to the left of the decimal point, if any, with 0. Another way is truncation. Drop all the digits to the right of a given decimal place.

205) Explain why you would use zeros to fill in for missing digits to the right of the decimal point when adding or subtracting decimals.

Answer: It helps reduce errors by making it easier to see which column a digit is in.

206) Why don't you have to line up decimal points in a vertical column when multiplying decimals?

Answer: The number of decimal places in the product is found by adding the number of decimal places in each factor.

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207) Explain how you multiply a decimal number by a power of ten.

Answer: Move the decimal point to the right the number of places equal to the number of zeros in the power of ten.

208) Why must decimal points be lined up in division of decimals?

Answer: It keeps digits with like place values in the same column. This is important because you subtract in division, and like named digits must be in the same column.

209) Explain how you divide a decimal number by a power of ten.

Answer: Move the decimal point to the left the number of places equal to the number of zeros in the power of ten.

210) Explain the difference between terminating and repeating decimals.

Answer: The division of the numerator and denominator of a fraction terminates by giving a remainder of 0 as you carry out the division. A repeating decimal has one or more digits repeat over and over as you carry out the division.

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

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

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

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

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201) D
202) D
203) B
204) If the digit to the right of the one you are rounding to is 5 or larger add 1 to the digit you are rounding to. If the digit is 4 or smaller, do not change it. Drop all digits to the right of the digit you are rounding to. Replace each dropped digit to the left of the decimal point, if any, with 0. Another way is truncation. Drop all the digits to the right of a given decimal place.
205) It helps reduce errors by making it easier to see which column a digit is in.
206) The number of decimal places in the product is found by adding the number of decimal places in each factor.
207) Move the decimal point to the right the number of places equal to the number of zeros in the power of ten.
208) It keeps digits with like place values in the same column. This is important because you subtract in division, and like named digits must be in the same column.
209) Move the decimal point to the left the number of places equal to the number of zeros in the power of ten.
210) The division of the numerator and denominator of a fraction terminates by giving a remainder of 0 as you carry out the division. A repeating decimal has one or more digits repeat over and over as you carry out the division.

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