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Corret Answers are located at the end of each chapter.

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

1) Express this verbal form in number form: Twelve thousand, nine hundred fifty-three

2) Round to nearest position as indicated: Nearest Ten 74

3) Round to nearest position as indicated: Nearest Hundred: 792

4) Round to nearest position as indicated: Nearest Thousand: 9,314

5) Estimate by rounding all the way (do not round final answer):
5,817 + 7,500

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6) Estimate by rounding all the way (do not round final answer):
258,499 + 17,994

7) Fill in missing number: 3,910 − _____ = 79

8) Fill in missing number: 2,188 − _____ = 750

9) Multiply by the shortcut method:
130 × 1,000

10) Multiply by the shortcut method:
6,150 × 10,000

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11) Divide by the shortcut method:

$$\frac{130{,}000}{1{,}000}$$

12) Divide by the shortcut method:

$$\frac{1{,}600}{20}$$

13) Divide by long division (show work):

$$\frac{6{,}644}{181}$$

14) Take $\frac{6{,}951}{81}$.

A. Estimate by rounding all the way;
B. Do the actual calculation:

A. Estimate _____
B. Actual _____

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15) Ray Company receives a shipment of 25 cartons of stereos. In each carton are five stereos. Each stereo sells for $80 and has a $30 cost to Ray. Assuming Ray sells all the stereos, what would its profit be?

16) Micah purchased two new Jeep Cherokees for $27,500 per Jeep, and paid $3,200 down on each car. What total amount should Micah borrow to pay for the cars?

17) John's Pizza sold $11,130 worth of pizza for one week. The same number of pizzas were sold each day. Each pizza sells for $6. How many pizzas were sold each day, assuming a seven-day work week.

18) Fleet Center seats 19,580 people. Total attendance for the season is 453,500. Assuming a 25-game home schedule, what is the average attendance per game? If each ticket cost $180, what would a sellout (all seats filled) bring in for revenue for a game?

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19) What is the total of the following verbal forms? Twelve thousand, four hundred eighty-four plus Fourteen million, eight plus Eleven thousand, six hundred twenty-two

20) Express 8,732,649 in verbal form:

21) Round the number 65 to the Nearest Ten:

22) Round the number 686 to the Nearest Hundred:

23) Round the number 7,108 to the Nearest Thousand:

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24) Round the number 15,915 all the way:

25) Estimate by rounding all the way, work actual problem, and check by adding each column of digits separately.
1,905 + 3,755 + 6,939

A. Estimate _____
B. Actual _____
C. Check _____

26)

A. Estimate by rounding all the way: 5,218 × 605
B. Do actual calculation: 5,218 × 605

27) Multiply by the shortcut method: 629,510 × 1,000

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28) Divide to find the quotient and the remainder: $\frac{16{,}192}{58}$

29) Divide by the shortcut method: $\frac{1500}{50}$

30) Celeste buys a ticket to a concert for $473. How much change will Celeste receive, after handing the ticket agent five $100 bills?

31) Dion plans to buy a boat for $19,500 with an interest charge of $2,500. Dion can afford a monthly payment of $650. If Dion has to pay 36 equal monthly payments, can he afford the boat?

32) In 2020, Lucy earned $66,000 in real estate commissions. If Lucy's average commission was $6,000 per house, how many houses did Lucy sell?

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33) Art Missan has his oil tank filled 12 times per year. His oil tank has a 300-gallon capacity. Assuming the price of home heating fuel is $3.00 per gallon and the tank is completely empty each time Art has it filled, what is Art's average monthly bill?
Try to complete blueprint aid to dissecting a word problem.

34) Express this verbal form in number form: Eighteen thousand, one hundred sixty-five

35) Express this verbal form in number form: Two million, thirty-eight thousand, five hundred three

36) Round the number 95 to the nearest ten:

37) Round the number 1,840 to the Nearest Hundred:

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38) Round the number 2,499 to the Nearest Thousand:

39) Round the number 84 to the Nearest Ten:

40) Round the number 671 to the Nearest Hundred:

41) Round the number 6,752 to the Nearest Thousand:

42) Estimate by rounding all the way (do not round final answer): 4,918 + 6,500

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43) Estimate by rounding all the way (do not round final answer): 9,100 + 8,555

44) Estimate by rounding all the way (do not round final answer): 3,342 + 9,581

45) Estimate by rounding all the way (do not round final answer): 2,944 + 7,653

46) Fill in the missing number:
31,982 − _____ = 1472

47) Fill in the missing number:
1,950 − 890 = _____

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48) Fill in the missing number:
1,095 − _____ = 39

49) Subtract: 9,438 − 8,888

50) Convert 3.4 million to a regular whole number.

51) Convert 18.25 million to a regular whole number

52) Multiply by the shortcut method: 525 × 1,000,000

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53) Multiply by the shortcut method.1,650 × 10,000

54) Divide by the shortcut method: $\frac{160{,}000}{1{,}000}$

55) Divide by the shortcut method: $\frac{190{,}000}{10{,}000}$

56) Divide by the shortcut method: $\frac{180{,}000}{100}$

57) Divide by the shortcut method: $\frac{165{,}000}{1{,}000}$

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58) Divide by long division and then check the answer: $\frac{6{,}514}{191}$

59) Divide by long division and then check the answer: $\frac{6{,}438}{132}$

60) Divide by long division: $\frac{5652}{17}$. Find

A. The Estimate
B. The Actual Quotient

61) Divide by long division: $\frac{8241}{12}$. Find

A. The Estimate
B. The Actual Quotient

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62) Regan College had 30 teachers in the Business Department on January 1, 2020. During 2020, seven teachers retired, and three new teachers were hired. At the end of 2020, how many teachers were employed in the Business Department of Regan College?

63) Anika rents a luxurious condominium for $37,200 for six months. What is the rental charge per month that Anika pays?

64) Abe Real Estate is developing 15 solar homes per state in 25 states. If the cost of each home is estimated at $80,000, what is the projected cost for the entire development?

65) Cho wants to buy a used van that costs $16,000 with an interest charge of $2,000. Cho can afford a monthly payment of $700 per month.

1. If there are 24 equal payments required, can Cho afford the van?
2. Calculate the monthly payment amount.

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66) Al's Hardware buys 200 lawn mowers for $50 each to stock the store for spring. If Al sells the 200 lawn mowers at $80 each, what is his profit? (profit = sales − cost)

67) A pocket calculator has a retail selling price of $12. The price has been reduced to $7. Bill purchases a calculator, handing the clerk a $100 bill. What change does Bill receive?

68) Mary Ross drove 1,064 miles. Her gas tank holds 28 gallons. How many miles per gallon did Mary's car get?

69) Emma earned $101,250 selling real estate in 2020. If Emma's average commission was $3,750 per unit sold, how many pieces of property were sold?

70) Al Ring, Martha Wright, and Jim Brewer wrote a text called Principles of Math. The royalties on the book are to be split equally. Total royalties earned for the year are $9,936. How much is author each entitled to?

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71) The oil tank of Jorge's home is filled 12 times per year. The oil tank has a capacity of 144 gallons. Assuming the price of home heating fuel is $2 per gallon, how much did Jorge spend on oil heat for the year? What is the average monthly heating bill?

72) The Missouri State Prison saw an increase in visitors from 3,290 in 2020 to 17,200 in 2021. How many more visitors did the prison see in 2021?

73) Tom traveled with his son Jeff to Branford, CT, by car and flew back at a cost of $443. He handed the ticket agent a $1,000 traveler's check. How much will Tom get back?

74) Round the number 18,932 to the Nearest Hundred:

75) The price of gas is $2.00 per gallon in Florida, well below the average price in California of $3.00 per gallon. If your Ford Taurus has a 20-gallon tank, assuming you are on empty, how much more will you pay for gas in California?

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76) Katy purchased 100 shares of Facebook's IPO @ $38.00 a share. One year later she sold it all for $50 a share. What was her total gain?

77) Multiply by the shortcut method:
2300 × 300

78) Estimate by rounding all the way (do not round final answer): 32,178 + 18,992

79) Round the number 235,726 to the Nearest Thousand:

80) Round the number 159,431 to the Nearest Ten Thousand:

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81) Round to nearest position as indicated: Nearest Ten Thousand: 2,475,732

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Answer Key

Test name: Chapter 01-01

1) Short Answer
2) Short Answer
3) Short Answer
4) Short Answer
5) Short Answer
6) Short Answer
7) Short Answer
8) Short Answer
9) Short Answer
10) Short Answer
11) Short Answer
12) Short Answer
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14) Short Answer
15) Short Answer
16) Short Answer
17) Short Answer
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38) Short Answer
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46) Short Answer
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76) Short Answer
77) Short Answer

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78) Short Answer
79) Short Answer
80) Short Answer
81) Short Answer

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Corret Answers are located at the end of each chapter.

TRUE/FALSE - Write 'T' if the statement is true and 'F' if the statement is false.

1) The Blueprint Aid for dissecting and solving a word problem serves to decrease math anxiety.
   - ◎ true
   - ◎ false

2) Commas separate a number into groups every three digits from right to left.
   - ◎ true
   - ◎ false

3) Place value of the hundreds position is to the right of the tens position.
   - ◎ true
   - ◎ false

4) 4,986 in verbal form is written as four thousand, nine hundred eighty-six.
   - ◎ true
   - ◎ false

5) Rounding approximates actual answers.
   - ◎ true
   - ◎ false

6) Rounding all the way means there are two nonzero digits left.
   - ◎ true
   - ◎ false

7) The first step in rounding is to identify the place value of the digit to be rounded.
   - ◎ true
   - ◎ false

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8) In the second step of rounding, look at the digit to the right of the identified digit you want to round. If the digit to the right is less than 5, increase the identified digit by 1.
   - ◎ true
   - ◎ false

9) 42,515 rounded to the nearest thousand is 43,000.
   - ◎ true
   - ◎ false

10) 1,786 rounded to the nearest ten is 1,780.
   - ◎ true
   - ◎ false

11) 258 rounded all the way is 300.
   - ◎ true
   - ◎ false

12) Numbers added together are called sums.
   - ◎ true
   - ◎ false

13) The total of addends is called the sum.
   - ◎ true
   - ◎ false

14) For numbers with more than one digit, adding is always done from bottom to top.
   - ◎ true
   - ◎ false

15) The opposite of addition is subtraction.
   - ◎ true
   - ◎ false

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16) In subtraction borrowing occurs from the column on the left.

- ◎ true
- ◎ false

17) In subtraction the minuend is the smaller number.

- ◎ true
- ◎ false

18) 512 minus 285 equals a difference of 227.

- ◎ true
- ◎ false

19) Multiplication is a shortcut to addition.

- ◎ true
- ◎ false

20) The multiplicand times the product equals the multiplier.

- ◎ true
- ◎ false

21) Zeros at the end of the multiplier and/or multiplicand are never attached to the product.

- ◎ true
- ◎ false

22) 55 × 100 means attaching two 0s to the multiplication of 55 and 1.

- ◎ true
- ◎ false

23) Divisor + quotient + remainder = dividend.

- ◎ true
- ◎ false

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24) Division is the reverse of multiplication.

- ◎ true
- ◎ false

25) Division asks how many times one number, the divisor, is contained within another number, the dividend.

- ◎ true
- ◎ false

26) 1,257 added to 3,956 is 5,214.

- ◎ true
- ◎ false

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

27) The Blueprint Aid involves all of the column headings except which:

- A) The Facts
- B) The known numbers
- C) Solving for?
- D) Steps to take
- E) Key points

28) In the number 49,869 there are how many tens?

- A) 9
- B) 6
- C) 8
- D) 4
- E) 69

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29) 439,532 written in verbal form is:

A) four hundred thirty-nine thousand and five hundred thirty-two
B) four hundred and thirty-nine thousand, five hundred thirty-two
C) four hundred thirty-nine thousand, five hundred thirty
D) four and thirty-nine hundred thousand, five hundred thirty-two
E) None of these

30) 37,855 rounded to the nearest thousand is:

A) 40,000
B) 30,000
C) 38,000
D) 37,000
E) None of these

31) 19,890 rounded to the nearest hundred is:

A) 20,000
B) 19,000
C) 19,700
D) 19,900
E) None of these

32) Round 2,689 all-the-way:

A) 2,680
B) 3,680
C) 3,000
D) 2,790
E) None of these

33) Adding 1,690 + 88 + 410 + 30 results in a sum of:

A) 2,182
B) 2,818
C) 2,218
D) 2,188
E) None of these

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34) Subtracting 766 from 941 results in a difference of:

A) 1,707
B) 571
C) 185
D) 241
E) 175

35) 88,000 times 300 equals:

A) 264,000
B) 26,000
C) 26,400,000
D) 26,000,000
E) None of these

36) 97 × 100,000 equals:

A) 9,700
B) 97,000
C) 9,700,000
D) 970,000
E) None of these

37) 98,000 divided by 4,000 equals:

A) 420
B) 240
C) 2 R2
D) 24 R2,000
E) None of these

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38) Janet Woo received the following grades in an accounting class at McLennan Community College: 65, 80, 70, 100, 75, and 90. The instructor said he would drop the lowest grade. What is Janet's average? (sum ÷ total)

A) 81
B) 83
C) 84
D) 82
E) 80

39) Lee Company carpeted its offices, requiring 310 square yards of commercial carpet. The total cost of the carpet at Home Depot was $10,230. How much did Lee pay per square yard?

A) $33
B) $34
C) $340
D) $32
E) $3

40) At Best Buy a flat screen television with a regular price of $1,790 was reduced by $395. Assuming 800 customers purchased the television, what were the total sales to Best Buy?

A) $1,160
B) $116,000
C) $1,161,000
D) $1,116,000
E) $11,160,000

41) At a General Electric Plant they produced 12,000 jet engines in May. General Electric was able to sell 11,000 of these engines. Calculate the total ending inventory cost assuming each engine cost $290,000.

A) $1,000
B) $290,000,000
C) $2,900,000
D) $920,000,000
E) $2,999,000

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42) True Value Hardware buys 200 snow blowers for $90 each to stock the store for the winter. If True Value sells the 200 snow blowers at $120 each, what is the profit? (profit = sales − cost)

A) $60,000
B) $6,000
C) $24,000
D) $18,000
E) None of these

43) On Tuesday, Pizza Hut sold 60 cheese pizzas at $8 each; 20 sausage pizzas at $12 each; 8 specialty pizzas at $15 each; and 33 pepperoni pizzas at $10 each. What were the total dollar sales for Pizza Hut on Tuesday?

A) $1,170
B) $690
C) $840
D) $930
E) $700

44) Ishmal rents a ski house in Vail for $350 per day for six days. Assuming Ishmal spends $3940 for the total trip, how much is spent on expenses other than the ski house rental?

A) $3,400
B) $3,500
C) $2,200
D) $1,800
E) $1,840

45) Elu is buying a new Chevy Volt for $39,000 with an interest charge of $4800. Elu sets up a loan, and repays it over 25 equal monthly payments for 25 months. What will be the monthly payment?

A) $1,560
B) $1,684
C) $1,864
D) $192
E) $1,752

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46) Mr. Rosa wants to buy a used Ford Explorer that costs $26,000 with an interest charge of $3,000. If there are 50 equal payments required, what will Mr. Rosa's monthly payment be?

A) $580
B) $850
C) $520
D) $250
E) $500

47) Ms. Lopez bought 6,000 shares of stock in eBay Company. After holding the stock for six months, 500 shares were sold on Monday, 220 shares on Tuesday and again on Thursday, and 900 shares on Friday. If the average share of stock Ms. Lopez still has is worth $35 per share, what is the total value of the stock?

A) $35,000
B) $145,600
C) $180,500
D) $210,000
E) $64,400

48) Round 2,689 all the way:

A) 2,680
B) 3,680
C) 3,000
D) 2,790
E) 2,000

49) 47,000 times 400 equals:

A) 18,800,000
B) 18,000,000
C) 18,000,800
D) 800,000
E) 188,000

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50) 708,000 divided by 3,000 equals:

A) 236
B) 236 R2
C) 2360
D) 23,360
E) 263

51) Ace Landscape buys 100 shovels for $15 each. Ace sells all 100 shovels at $30 each. What is the profit made by Ace? (profit = sales − cost)

A) $1,400
B) $3,000
C) $1,500
D) $1,600
E) None of these

52) Jeff wants to buy a new Ford Fusion for $24,200, with shipping costs of $864 and interest cost of $1,000. If Jeff pays in 72 equal payments, what will Jeff's monthly payment be?

A) $362
B) $350
C) $250
D) $262
E) None of these

53) Round 15,983 to the nearest hundred:

A) 15,980
B) 16,000
C) 15,990
D) 15.900
E) None of these

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54) Macknzie is shopping for a new wardrobe, and finds a sweater for $135, a pair of jeans for $58, two shirts for $13 each, and a pair of shoes for $78. Estimate the total amount of money spent on this wardrobe by rounding each value all the way and taking the sum.

A) $300
B) $260
C) $240
D) $310
E) None of these

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Answer Key

Test name: Chapter 01-02

1) TRUE
2) TRUE
3) FALSE
4) TRUE
5) TRUE
6) FALSE
7) TRUE
8) FALSE
9) TRUE
10) FALSE
11) TRUE
12) FALSE
13) TRUE
14) FALSE
15) TRUE
16) TRUE
17) FALSE
18) TRUE
19) TRUE
20) FALSE
21) FALSE
22) TRUE
23) FALSE
24) TRUE
25) TRUE
26) FALSE
27) B
28) B
29) E
30) C
31) D
32) C
33) C
34) E
35) C
36) C
37) D

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38) B
39) A
40) D
41) B
42) B
43) A
44) E
45) E
46) A
47) B
48) C
49) A
50) A
51) C
52) A
53) B
54) B

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