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

Evaluate the expression for the given value or values.

- 1) $51 + y$ for $y = 23$ 1) _____
A) 83 B) 47 C) 65 D) 74
- 2) $x - x$ for $x = 15$ 2) _____
A) 0 B) -1 C) 15 D) 1
- 3) $x \div 5$ for $x = 285$ 3) _____
A) 59 B) 57 C) 60 D) 55
- 4) $y \div y$ for $y = 6$ 4) _____
A) 0 B) -1 C) 6 D) 1
- 5) $0 \div x$ for $x = 156$ 5) _____
A) 1 B) 0 C) -1 D) 156
- 6) $5x$, for $x = 8$ 6) _____
A) $\frac{8}{5}$ B) 13 C) 40 D) $\frac{5}{8}$
- 7) $x(8)$, for $x = 6$ 7) _____
A) $\frac{8}{6}$ B) 14 C) $\frac{6}{8}$ D) 48
- 8) $x + y$ for $x = 52$, $y = 31$ 8) _____
A) 83 B) 38 C) 65 D) 74
- 9) $x \div y$ for $x = 416$, $y = 8$ 9) _____
A) 52 B) 54 C) 50 D) 55
- 10) xy , for $x = 5$, $y = 6$ 10) _____
A) $\frac{6}{5}$ B) 30

D) 11

11) $x \bullet y$ for $x = 4, y = 59$

A) 236

B) 213

C) 206

D) 336

11) _____

Solve the problem.

12) Each ounce of gold is worth \$39.

12) _____

(i) Complete the table to find an expression that describes the total value (in dollars) of n ounces of gold. Show the arithmetic to help you see a pattern.(ii) Evaluate the expression you found in part (i) for $n = 5$. What does your result mean in this situation?

Number of Ounces and Total Value

Number of Ounces	Total Value (dollars)
1	
2	
3	
4	
n	

A) (i)

Number of Ounces and Total Value

Number of Ounces	Total Value (dollars)
1	39 - 1
2	39 - 2
3	39 - 3
4	39 - 4
n	39 - n

(ii) 34; \$34 is the total value of 5 ounces of gold priced at \$39 per ounce.

B) (i)

Number of Ounces and Total Value

Number of Ounces	Total Value (dollars)
1	39 • 1
2	39 • 2
3	39 • 3
4	39 • 4
n	39n

(ii) 195; \$195 is the total value of 5 ounces of gold priced at \$39 per ounce.

C) (i)

Number of Ounces and Total Value

Number of Ounces	Total Value (dollars)
1	39 + 1
2	39 + 2
3	39 + 3
4	39 + 4
n	39 + n

(ii) 44; \$44 is the total value of 5 ounces of gold priced at \$39 per ounce.

D) (i)

Number of Ounces and Total Value

Number of Ounces	Total Value (dollars)
1	39 ÷ 1
2	39 ÷ 2
3	39 ÷ 3
4	39 ÷ 4
n	39 ÷ n

(ii) 7.80; \$7.80 is the total value of 5 ounces of gold priced at \$39 per ounce.

- 13) Each customer of a photography studio pays a sitting fee of \$20.

(i) Complete the table to find an expression that describes the total cost (in dollars) of a photograph package plus the sitting fee if a customer pays p dollars for a photograph package. Show the arithmetic to help you see a pattern.

(ii) Evaluate the expression you found in part (i) for $p = 169$. What does your result mean in this situation?

Cost of Photograph Package and Total Cost	
Cost of Photograph	Total Cost
Package	(dollars)
77	
78	
79	
80	
p	

A) (i)

Cost of Photograph Package and Total Cost	
Cost of Photograph	Total Cost
Package	(dollars)
77	$77 + 20$
78	$78 + 20$
79	$79 + 20$
80	$80 + 20$
p	$p + 20$

(ii) 189; If the photograph package is \$169, then the total cost is \$189.

B) (i)

Cost of Photograph Package and Total Cost	
Cost of Photograph	Total Cost
Package	(dollars)
77	$77 + 20$
78	$78 + 20$
79	$79 + 20$
80	$80 + 20$
p	$p + 20$

(ii) 149; If the photograph package is \$169, then the total cost is \$149.

C) (i)

Cost of Photograph Package and Total Cost	
Cost of Photograph	Total Cost
Package	(dollars)
77	$77 + 20$
78	$78 + 20$
79	$79 + 20$
80	$80 + 20$
p	$p + 20$

(ii) 3380; If the photograph package is \$169, then the total cost is \$3380.

D) (i)

Cost of Photograph Package and Total Cost	
Cost of Photograph	Total Cost
Package	(dollars)
77	$77 + 20$
78	$78 + 20$
79	$79 + 20$
80	$80 + 20$
<u>p</u>	<u>$p + 20$</u>

(ii) 8.45; If the photograph package is \$169, then the total cost is \$8.45.

Let x be a number. Translate the English phrase or sentence into a mathematical expression.

- 14) The total of 41 and a number 14) _____
- A) 41 B) $41 + x$ C) $41x$ D) $41 - x$
- 15) The sum of a number and 87 15) _____
- A) $87x$ B) 87 C) $x + 87$ D) $x - 87$
- 16) 7 times a number 16) _____
- A) $7 \div x$ B) $7 - x$ C) $7 + x$ D) $7x$
- 17) 130 less than a number 17) _____
- A) $130 \div x$ B) $x + 130$ C) $130 - x$ D) $x - 130$
- 18) The product of 9 and a number 18) _____
- A) $9 - x$ B) $9x$ C) $9 + x$ D) $9 \div x$
- 19) Subtract 44 from a number 19) _____
- A) $x - 44$ B) $44 - x$ C) $44x$ D) 44
- 20) The difference of a number and 25 20) _____
- A) $x - 25$ B) $25x$ C) $25 - x$ D) 25
- 21) 30 decreased by a number 21) _____
- A) $30 \div x$ B) $x - 30$ C) $30 + x$ D) $30 - x$
- 22) Divide a number by 51 22) _____
- A) $51x$ B) $x - 51$ C) $x \div 51$ D) $51 \div x$
- 23) The quotient of 60 and a number 23) _____
- A) $x - 60$ B) $60 - x$ C) $x \div 60$ D) $60 \div x$
- 24) A number increased by 93 24) _____
- A) $93 \div x$ B) $x - 93$ C) $93x$ D) $x + 93$
- 25) Two more than a number 25) _____
- A) $x + 2$ B) $2x$ C) $x - 2$ D) $x \div 2$

26) Eleven less than a number

A) $x \div 11$

B) $11x$

C) $x - 11$

D) $11 - x$

26) _____

27) Divide a number by eight

A) $8 \div x$

B) $x \div 8$

C) $8 - x$

D) $8x$

27) _____

28) A number decreased by nine

A) $9 - x$

B) $x - 9$

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

D) $x + 9$

28) _____

Let x be a number. Translate the expression into an English phrase.

29) $105 + x$

A) Divide 105 by a number.

C) The difference of 105 and a number

B) The total of 105 and a number

D) Multiply 105 by a number.

29) _____

30) $x + 89$

A) The quotient of a number and 89

B) The difference between a number and 89

C) The product of a number and 89

D) The sum of a number and 89

30) _____

31) $2x$

A) 2 plus a number

C) 2 divided by a number

B) 2 times a number

D) 2 minus a number

31) _____

32) $x - 92$

A) 92 less than a number

C) 92 plus a number

B) 92 less a number

D) 92 increased by a number

32) _____

33) $4x$

A) The sum of 4 and a number

C) The product of 4 and a number

B) The quotient of 4 and a number

D) Divide a number by 4.

33) _____

34) $x - 49$

A) Subtract 49 from a number

C) 49 multiplied by a number

B) The ratio of 49 and a number

D) Subtract a number from 49

34) _____

35) $x - 61$

A) The sum of a number and 61

C) The quotient of a number and 61

B) The difference of 61 and a number

D) The difference of a number and 61

35) _____

36) $27 - x$

- A) A number decreased by 27
- C) 27 less than a number

36) _____

- B) 27 decreased by a number
- D) A number less 27

37) $x \div 72$

- A) Divide 72 by a number.
- C) Divide a number by 72

37) _____

- B) The ratio of 72 to a number
- D) The quotient of 72 and a number

- 38) $44 \div x$ 38) _____
 A) The ratio of a number to 44
 C) The quotient of 44 and a number
 B) Divide a number by 44.
 D) The quotient of a number and 44
- 39) $x + 82$ 39) _____
 A) A number increased by 82
 C) A number decreased by 82
 B) A number multiplied by 82
 D) A number divided by 82
- 40) $x + 7$ 40) _____
 A) Seven more than a number
 C) Seven less than a number
 B) Seven times a number
 D) Seven divided by a number
- 41) $x - 5$ 41) _____
 A) Five less than a number
 C) Five minus a number
 B) Five more than a number
 D) Five decreased by a number
- 42) $20 \div x$ 42) _____
 A) Twenty added to a number
 C) Twenty divided by a number
 B) Twenty multiplied by a number
 D) Twenty decreased by a number
- 43) $x - 11$ 43) _____
 A) A number increased by eleven
 C) A number plus eleven
 B) A number decreased by eleven
 D) eleven minus a number

Solve the problem.

- 44) Translate the phrase into a mathematical expression then evaluate the expression for $x = 34$ and $y = 31$. 44) _____
 The sum of x and y
 A) $x + y; 56$ B) $x + y; 65$ C) $x + y; 47$ D) $x + y; 74$
- 45) Translate the phrase into a mathematical expression then evaluate the expression for $x = 416$ and $y = 8$. 45) _____
 The quotient of x and y
 A) $x \div y; 52$ B) $x \div y; 55$ C) $x \div y; 50$ D) $x \div y; 54$
- 46) Translate the phrase into a mathematical expression then evaluate the expression for $x = 5$ and $y = 4$. 46) _____
 The product of x and y
 A) $xy; 20$ B) $x + y; 9$ C) $y \div x; \frac{4}{5}$ D) $x \div y; \frac{5}{4}$
- 47) For the period 2000 – 2006, if M is the average math SAT score (in points) for a certain year, then the average verbal SAT score (in points) for that year is approximately $M + t$ where t is the number of years since 2000. The average math SAT score was 484 points in 2006. Estimate the average verbal SAT score in 2006. 47) _____
 A) 500 points B) 495 points C) 490 points D) 485 points

48) A person drives 38t miles in t hours.

48) _____

(i) Evaluate $38t$ for $t = 1$, $t = 2$, $t = 3$, and $t = 4$. Describe the meaning of your results.

(ii) Refer to your results to part (i) to determine at what speed the person is traveling.

A) (i) 39, 40, 41, 42; The person drives 39 miles in 1 hour, 40 miles in 2 hours, 41 miles in 3 hours, 42 miles in 4 hours.

(ii) The person is driving 39 miles per hour.

B) (i) 38, 76, 114, 152; The person drives 38 miles in 1 hour, 76 miles in 2 hours, 114 miles in 3 hours, 152 miles in 4 hours.

(ii) The person is driving 38 miles per hour.

C) (i) 38, 19.0, 12.7, 9.5; The person drives 38 miles in 1 hour, 19.0 miles in 2 hours, 12.7 miles in 3 hours, 9.5 miles in 4 hours.

(ii) The person is driving 38 miles per hour.

D) (i) 76, 114, 152, 190; The person drives 76 miles in 1 hour, 114 miles in 2 hours, 152 miles in 3 hours, 190 miles in 4 hours.

(ii) The person is driving 38 miles per hour.

49) Kevin and Amir share in the profits of a pet supplies store. If the total profit is \$50,000 and p is the amount of profit Kevin receives, write an expression for the amount Amir receives.

49) _____

A) $p - \$50,000$

B) $\$50,000 - p$

C) $\$50,000 + p$

D) $p + \$50,000$

50) Keerti found that he had y nickels in his pocket. Write an expression that represents this quantity of money in cents.

50) _____

A) $5y$

B) $y + 5$

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

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

51) A motorcycle shop maintains an inventory of three times as many new bikes as used bikes so that if n is the number of new bikes, there are $n \div 3$ used bikes at the shop. If there are 75 new bikes, how many used bikes are now in stock?

51) _____

A) 225 used bikes

B) 25 used bikes

C) 38 used bikes

D) 50 used bikes

Write the number as a product of primes.

52) 12

52) _____

A) $4 \bullet 2$

B) $2 \bullet 3$

C) $3 \bullet 3$

D) $2 \bullet 2 \bullet 3$

53) 275

53) _____

A) $5 \bullet 11$

B) $5 \bullet 11 \bullet 11$

C) $5 \bullet 5$

D) $5 \bullet 5 \bullet 11$

54) 46

54) _____

A) $2 \bullet 23$

B) $2 \bullet 25$

C) $22 \bullet 4$

D) $3 \bullet 25$

55) 154

55) _____

A) $7 \bullet 7 \bullet 2$

B) $2 \bullet 7 \bullet 11$

C) $2 \bullet 2 \bullet 11$

D) $2 \bullet 7 \bullet 11 \bullet 11$

56) 350

A) $2 \bullet 5 \bullet 5 \bullet 7$

B) $2 \bullet 2 \bullet 5 \bullet 7$

C) $2 \bullet 5 \bullet 7$

D) $5 \bullet 5 \bullet 5 \bullet 7$

56) _____

Simplify.

$$57) \frac{3}{12}$$

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

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

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

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

57) _____

$$58) \frac{45}{72}$$

A) $\frac{45}{72}$

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

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

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

58) _____

$$59) \frac{33}{77}$$

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

B) $\frac{3}{11}$

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

D) $\frac{33}{77}$

59) _____

$$60) \frac{70}{90}$$

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

B) $\frac{70}{90}$

C) $\frac{10}{9}$

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

60) _____

$$61) \frac{60}{75}$$

A) $\frac{4}{15}$

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

C) $\frac{15}{5}$

D) $\frac{60}{75}$

61) _____

$$62) \frac{33}{39}$$

A) $\frac{11}{3}$

B) $\frac{33}{39}$

C) $\frac{3}{13}$

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

62) _____

$$63) \frac{85}{70}$$

A) $\frac{14}{17}$

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

C) $\frac{17}{14}$

D) $\frac{85}{70}$

63) _____

$$64) \frac{27}{36}$$

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

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

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

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

64) _____

Perform the indicated operation.

$$65) \frac{2}{7} \bullet \frac{2}{3}$$

A) $\frac{21}{4}$

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

C) $\frac{4}{21}$

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

65) _____

$$66) \frac{13}{6} \bullet \frac{3}{8}$$

A) $\frac{99}{48}$

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

C) $\frac{11}{16}$

D) $\frac{29}{16}$

66) _____

$$67) \frac{68}{15} \bullet 3$$

A) 12

B) $\frac{63}{5}$

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

D) $\frac{188}{15}$

67) _____

$$68) \frac{2}{11} \div \frac{7}{10}$$

A) $\frac{20}{75}$

B) $\frac{18}{77}$

C) $\frac{20}{77}$

D) $\frac{19}{77}$

68) _____

$$69) \frac{4}{19} \div \frac{9}{14}$$

A) $\frac{56}{171}$

B) $\frac{56}{169}$

C) $\frac{55}{171}$

D) $\frac{54}{171}$

69) _____

$$70) \frac{6}{15} \div \frac{2}{13}$$

A) $\frac{4}{195}$

B) $\frac{195}{4}$

C) $\frac{13}{5}$

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

70) _____

$$71) \frac{35}{6} \div \frac{14}{15}$$

A) $\frac{25}{6}$

B) $\frac{25}{14}$

C) $\frac{75}{12}$

D) $\frac{25}{4}$

71) _____

$$72) \frac{18}{7} \div \frac{3}{7}$$

A) 7

B) 6

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

D) 5

72) _____

$$73) \frac{20}{7} \div 10$$

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

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

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

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

73) _____

Add or subtract. Simplify the answer.

$$74) \frac{5}{7} + \frac{4}{7}$$

74) _____

9 9

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

B) $\frac{9}{18}$

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

D) 1

$$75) \frac{5}{9} + \frac{1}{9}$$

75) _____

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

$$76) \frac{3}{28} + \frac{3}{28}$$

76) _____

- A) $\frac{1}{7}$ — — —

$$77) \frac{5}{8} - \frac{4}{8}$$

77) _____

- B) 15
C) 13
D) 14
8 8

- A) $\frac{1}{8}$ B) $\frac{1}{4}$ C) $\frac{3}{16}$ D) $\frac{1}{2}$

$$78) \frac{7}{10} - \frac{1}{10}$$

78) _____

- A) $\frac{6}{0}$ B) $\frac{6}{10}$ C) $\frac{3}{5}$ —
D) $\frac{2}{0}$

$$79) \frac{36}{50} - \frac{28}{50}$$

79) _____

- A) $\frac{32}{25}$ D) $\frac{504}{25}$ — —
B) $\frac{25}{25}$

- C)

$$80) \frac{4}{17} + \frac{8}{17}$$

80) _____

- A) $\frac{11}{17}$ B) $\frac{12}{17}$ C) $\frac{13}{18}$ D) $\frac{11}{16}$

$$81) \frac{16}{74} + \frac{12}{74}$$

81) _____

- A) $\frac{14}{37}$ B) $\frac{13}{36}$ C) $\frac{15}{38}$ D) $\frac{13}{37}$

$$82) \frac{1}{6} + \frac{4}{7}$$

82) _____

- A) $\frac{31}{13}$ B) $\frac{5}{13}$ C) $\frac{5}{42}$ D) $\frac{31}{42}$

$$83) \frac{8}{9} - \frac{3}{5}$$

$$83) \underline{\hspace{2cm}}$$

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

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

$$C) \frac{13}{45}$$

$$D) \frac{13}{9}$$

—

—

$$84) \frac{1}{7} - \frac{1}{12}$$

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

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

C) $\frac{1}{84}$

D) $\frac{5}{84}$

84) _____

$$85) \frac{9}{10} + \frac{8}{9}$$

161

9

17

17

A) $\frac{1}{90}$

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

C) $\frac{1}{19}$

D) $\frac{1}{90}$

85) _____

$$86) \frac{6}{9} - \frac{2}{5}$$

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

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

C) $\frac{4}{45}$

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

86) _____

$$87) \frac{1}{4} + \frac{3}{8}$$

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

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

C) $\frac{21}{32}$

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

87) _____

$$88) \frac{7}{25} - \frac{1}{10}$$

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

B) $\frac{9}{50}$

C) $\frac{13}{50}$

D) $\frac{9}{250}$

88) _____

$$89) \frac{11}{16} - \frac{7}{24}$$

A) $\frac{19}{384}$

B) $\frac{19}{48}$

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

D) $\frac{1}{12}$

89) _____

$$90) \frac{7}{30} + \frac{1}{18}$$

A) $\frac{11}{45}$

B) $\frac{4}{45}$

C) $\frac{13}{45}$

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

90) _____

$$91) \frac{14}{5} - \frac{4}{15}$$

A) $\frac{38}{45}$

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

C) $\frac{38}{75}$

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

91) _____

$$92) 2 + \frac{2}{7}$$

A) 2

B) $\frac{52}{7}$

7

C) 16

D)⁴

7

92) 7 _____

$$93) 2 - \frac{3}{7}$$

$$93) \underline{\hspace{2cm}}$$

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

B) $-\frac{47}{7}$

C) $\frac{23}{-7}$

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

$$94) \frac{23}{3} - 1$$

$$94) \underline{\hspace{2cm}}$$

A) $\frac{20}{3}$

B) $\frac{68}{3}$

C) $\frac{22}{-3}$

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

$$95) 10 - \frac{2}{5}$$

$$95) \underline{\hspace{2cm}}$$

A) $\frac{48}{5}$

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

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

D) $\frac{52}{5}$

Perform the indicated operation. If the fraction is undefined, say so.

$$96) \frac{28}{28}$$

$$96) \underline{\hspace{2cm}}$$

A) 1

B) 0

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

D) 28

$$97) \frac{19}{1}$$

$$97) \underline{\hspace{2cm}}$$

A) $\frac{1}{19}$

B) 18

C) 19

D) undefined

$$98) \frac{0}{2}$$

$$98) \underline{\hspace{2cm}}$$

A) 0

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

C) 2

D) undefined

$$99) \frac{24}{0}$$

$$99) \underline{\hspace{2cm}}$$

A) 0

B) 24

C) $\frac{1}{24}$

D) undefined

$$100) \frac{103}{1}$$

$$101) \frac{315}{0}$$

A) $\frac{1}{103}$

$\frac{1}{15}$

B) 0

C) 103

100) _____

D)

undefined

101) _____

B) 1

C) 0

D)

undefined

$$102) \frac{6129}{6129}$$

A) 1

B) $\frac{1}{9129}$

C) 0

D) undefined

$$102) \underline{\hspace{2cm}}$$

$$103) \frac{103}{113} \bullet \frac{113}{103}$$

A) 113

B) 1

C) 0

D) undefined

$$103) \underline{\hspace{2cm}}$$

$$104) \frac{117}{142} - \frac{117}{142}$$

A) 1

B) $\frac{1}{142}$

C) 0

D) undefined

$$104) \underline{\hspace{2cm}}$$

Evaluate the expression for the given value or values.

$$105) \frac{y}{z} \text{ for } y = 18 \text{ and } z = 6$$

$$105) \underline{\hspace{2cm}}$$

A) 6

B) -6

C) 3

D) -3

$$106) \frac{x}{3} + \frac{y}{3} \text{ for } x = 24, y = 12$$

$$106) \underline{\hspace{2cm}}$$

A) 36

B) 28

C) 12

D) 20

$$107) \frac{x}{w} \div \frac{y}{z} \text{ for } w = 3, x = 7, y = 4 \text{ and } z = 21$$

$$107) \underline{\hspace{2cm}}$$

A) $\frac{49}{4}$

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

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

D) $\frac{4}{49}$

$$108) \frac{y}{z} \bullet \frac{w}{x} \text{ for } w = 9, x = 3, y = 8 \text{ and } z = 27$$

$$108) \underline{\hspace{2cm}}$$

A) $\frac{81}{8}$

B) $\frac{8}{81}$

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

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

$$109) \frac{x}{w} - \frac{y}{z} \text{ for } w = 4, x = 7, y = 4 \text{ and } z = 28$$

$$109) \underline{\hspace{2cm}}$$

A) $\frac{53}{28}$

B) $\frac{45}{7}$

C) $\frac{45}{4}$

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

Use a calculator to compute. Round the result to two decimal places.

$$110) \frac{7}{19} \bullet \frac{8}{49}$$

$$110) \underline{\hspace{2cm}}$$

A) 0.06

B) 0.03

C) 0.24

D) 0.51

$$111) \frac{12}{13} \bullet \frac{17}{25}$$

A) 5.37

B) 0.76

C) 0.09

D) 0.63

$$111) \underline{\hspace{2cm}}$$

112) $\frac{24}{35} \div \frac{28}{45}$

A) 1.00

B) 54

C) 1.10

D) 7.71

112) _____

113) $\frac{256}{377} - \frac{109}{551}$

A) 0.88

B) 0.84

C) 0.48

D) 0.00

113) _____

114) $\frac{711}{941} + \frac{417}{830}$

A) 1.26

B) 1.30

C) 0.64

D) 0.00

114) _____

Solve the problem.

$\frac{4}{7}$
a width of

of

7

$\frac{1}{2}$ km. What is the area of this plot? 115) _____ km

2



$\frac{4}{7}$ km

A) $\frac{2}{7}$ square km

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

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

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

7

14

9

9

116) A piece of cheese weighing $\frac{2}{9}$ pound is to be divided into 4 equal portions. What will be the weight of each portion?

116) _____

of each portion?

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

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

C) 18 lb

D) $\frac{8}{9}$ lb

117) A tutor charges \$97 for a tutoring session that lasts for t hours. Complete the table to help find an expression that describes the cost (in dollars) per hour. (Show the arithmetic in order to see a pattern.) 117) _____

Total Time (hours)	Cost per Hour (dollars per hour)
2	
3	
4	
5	
t	

Total Time (hours)	Cost per Hour (dollars per hour)
2	$\frac{2}{97}$
3	$\frac{3}{97}$
4	$\frac{4}{97}$
5	$\frac{5}{97}$
t	$\frac{t}{97}$

Total Time (hours)	Cost per Hour (dollars per hour)
2	$\frac{97}{2}$
3	$\frac{97}{3}$
4	$\frac{97}{4}$
5	$\frac{97}{5}$
t	$\frac{97}{t}$

Total Time (hours)	Cost per Hour (dollars per hour)
2	$2 + 97$
3	$3 + 97$
4	$4 + 97$
5	$5 + 97$
t	$t + 97$

Total Time (hours)	Cost per Hour (dollars per hour)
2	$2 \bullet 97$
3	$3 \bullet 97$
4	$4 \bullet 97$
5	$5 \bullet 97$
t	$t \bullet 97$

Solve. Simplify the answer.

- 118) Barat walked $\frac{1}{20}$ mile to his biology class, $\frac{3}{20}$ mile to his art class, $\frac{4}{20}$ mile to his calculus class, and 118) _____

then back to his dormitory. If he walked 1 mile altogether, how far did he walk from his calculus class to his dormitory?

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

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

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

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

5

4

5

5

- 119) Erika spent $\frac{5}{6}$ hr on her computer visiting the History Channel and the Discovery Channel 119) _____

Websites. She spent $\frac{1}{4}$ hr at the History Channel website. How many hours did she spend at the Discovery Channel website?

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

B) $\frac{13}{24}$ hr

C) $\frac{19}{24}$ hr

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

120) The probability that an event does not occur may be found by subtracting the probability that the event does occur from 1. If the probability that Luis passes his driving test is $\frac{1}{7}$, what is the

120) _____

probability that he does not pass his driving test?

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

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

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

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

121) The front cover of a book measures $\frac{13}{2}$ inches by $\frac{27}{5}$ inches. What is the total distance around (the perimeter of) the front cover of the book?

119

117

A) $\frac{119}{10}$ in.

B) 23 in.

C) $\frac{119}{5}$ in.

D) $\frac{117}{5}$ in.

Compute.

122) $-(-9)$

A) 1

B) 9

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

D) -9

122) _____

123) $-(-13)$

A) 13

B) 1

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

D) -13

123) _____

124) $-(-27)$

A) 27

B) 0

C) -27

D) $-\frac{1}{27}$

124) _____

125) $-(-25)$

A) -25

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

C) 0

D) 25

125) _____

126) $|21|$

A) $-\frac{1}{21}$

B) -21

C) 21

D) 0

126) _____

127) $|-12|$

A) -12

B) 12

C) $-\frac{1}{12}$

D) 0

127) _____

128) $|-12|$

A) 0

B) -12

C) $-\frac{1}{12}$

D) 12

128) _____

129) - |28|

A) 0

B) -28

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

D) 28

129) _____

130) $-|5|$

A) -5

B) 5

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

D) 0

130) _____

131) $-|-19|$

A) $-\frac{1}{19}$

B) 0

C) -19

D) 19

131) _____

Find the sum.

132) $4 + (-5)$

A) -1

B) 9

C) -9

D) 1

132) _____

133) $-8 + 15$

A) -7

B) 23

C) -23

D) 7

133) _____

134) $-8 + (-11)$

A) -19

B) 3

C) 19

D) -3

134) _____

135) $20 + (-15)$

A) 5

B) -35

C) -5

D) 35

135) _____

136) $-4 + 8$

A) 4

B) -4

C) -12

D) 12

136) _____

137) $-13 + (-12)$

A) -1

B) 1

C) -25

D) 25

137) _____

138) $43 + (-44)$

A) 87

B) 1

C) -87

D) -1

138) _____

139) $-33 + 21$

A) -54

B) 12

C) -12

D) 54

139) _____

140) $-11 + (-19)$

A) 30

B) 8

C) -8

D) -30

140) _____

141) $11 + (-11)$

A) -11

B) 22

C) 11

D) 0

141) _____

142) $-32 + (-32)$

A) 64

B) -64

C) 0

D) -32

142) _____

143) $81 + (-4)$

A) 77

B) -77

C) -85

D) 85

143) _____

144) $-54 + 15$

A) -69

B) 69

C) 39

D) -39

144) _____

- 145) $-19 + (-5)$ A) -14 B) 24 C) 14 D) -24 145) _____
- 146) $52 + (-148)$ A) 96 B) -200 C) 200 D) -96 146) _____
- 147) $-36 + 149$ A) -185 B) -113 C) 113 D) 185 147) _____
- 148) $-31 + (-154)$ A) 185 B) -123 C) -185 D) 123 148) _____
- 149) $119 + (-3159)$ A) -3278 B) 3040 C) 3278 D) -3040 149) _____
- 150) $-584 + 947$ A) -1531 B) 363 C) -363 D) 263 150) _____
- 151) $-929 + 173$ A) -756 B) 656 C) 756 D) -1102 151) _____
- 152) $-552 + (-828)$ A) -1380 B) -176 C) 276 D) -276 152) _____
- 153) $50,921 + (-50,921)$ A) -21 B) 101,842 C) -101,842 D) 0 153) _____
- 154) $-14.4 + (-23.9)$ A) 38.3 B) 9.5 C) -9.5 D) -38.3 154) _____
- 155) $19.5 + (-16.1)$ A) 35.6 B) -3.4 C) 3.4 D) -35.6 155) _____
- 156) $5.3 + (-9.5)$ A) 14.8 B) -14.8 C) -4.2 D) 4.2 156) _____
- 157) $-11.3 + 3.0$ A) 8.3 B) -14.3 C) -8.3 D) 14.3 157) _____
- 158) $-8.1 + (-2.2)$ A) 10.3 B) -5.9 C) -10.3 D) 5.9 158) _____
- 159) $\frac{1}{10} + \left[-\frac{1}{2} \right]$
A) $\frac{2}{5}$ B) $-\frac{2}{5}$ C) $-\frac{3}{5}$ D) $\frac{3}{5}$ 159) _____

$$160) - \frac{1}{8} + \frac{1}{2}$$

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

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

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

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

160) _____

$$161) - \frac{3}{5} + -\left(\frac{1}{5} \right)$$

—

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

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

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

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

161) _____

$$162) \frac{5}{32} - \left(\frac{5}{32} \right)$$

A) 0

B) $-\frac{5}{16}$

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

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

162) _____

$$163) - \frac{3}{10} + 0 - \left(\frac{1}{5} \right)$$

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

B) $-\frac{1}{10}$

C) $-\frac{4}{15}$

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

163) _____

Use a calculator to find the sum. Round the result to two decimal places.

164) $634.63 + (-75.82)$

A) 558.81

B) -558.81

C) 559.63

D) 710.45

164) _____

165) $-43.26 + (-7.97)$

A) 51.23

B) 35.29

C) -51.23

D) -35.29

165) _____

166) $-6.68 + 29.84$

A) 36.52

B) 23.16

C) -23.16

D) -36.52

166) _____

167) $-100.54 + 30.38$

A) 131.00

B) -70.16

C) -130.92

D) -69.16

167) _____

168) $-115.74 + (-30.21)$

A) 85.53

B) -85.53

C) 145.95

D) -145.95

168) _____

$$169) -11,555.83 + \left(-95,312.97 \right)$$

A) 106,868.80

B) -83,757.14

C) -106,868.80

D) 83,757.14

169) _____

$$170) \frac{283}{343} + \left(-\frac{106}{567} \right)$$

A) -0.79

B) 1.01

C) 0.19

D) 0.64

170) _____

$$171) -\frac{797}{927} + \frac{407}{874}$$

A) -0.67

B) -22.72

C) 1.33

D) -1.33

$$171) \underline{\quad}$$

Find the difference.172) $x + y$, for $x = 7$ and $y = -3$

A) -21

B) 10

C) 4

D) -10

172) _____

173) $y + x$, for $x = -2$ and $y = 4$

A) -6

B) 2

C) 6

D) -8

173) _____

174) $a + b$, for $a = 3$ and $b = -2$

A) 1

B) 5

C) -1

D) -5

174) _____

175) $b + a$, for $a = -4$ and $b = 0$

A) -40

B) 4

C) -4

D) 0

175) _____

176) $c + d$, for $c = -5$ and $d = -3$

A) 8

B) -2

C) -8

D) 2

176) _____

177) $d + c$, for $c = 6$ and $d = -10$

A) 4

B) -16

C) 16

D) -4

177) _____

Let x be a number. Translate the English phrase into a mathematical expression.

178) The total of - 103 and a number

A) - 103

B) - 103 + x

C) 103 - x

D) - 103x

178) _____

179) The sum of a number and - 11

A) - 11x

B) - 11

C) x + (- 11)

D) x + 11

179) _____

180) - 7 increased by a number

A) - 7 + x

B) - 7 ÷ x

C) - 7x

D) x + 7

180) _____

Solve the problem.

181) A check register is shown in the table below. Find the final balance of the checking account.

181) _____

<u>Check Register</u>				
<u>Check Number</u>	<u>Date</u>	<u>Description of Transaction</u>		
		<u>Payment</u>	<u>Deposit</u>	<u>Balance</u>
				-90.28
1752	12/20	Paycheck		618.11
1753	12/22	Petcom	33.22	
	12/22	Park & Shop	233.44	
	1/02	ATM	100.00	
	1/09	Rebate		21.01

A)

<u>Check Register</u>				
<u>Check Number</u>	<u>Date</u>	<u>Description of Transaction</u>	<u>Payment</u>	<u>Deposit Balance</u>
				-90.28
	12/20	Paycheck	618.11	-708.39
1752	12/22	Petcom	33.22	-675.17
1753	12/22	Park & Shop	233.44	-441.73
	1/02	ATM	100.00	-341.73
	1/09	Rebate	21.01	-362.74

The final balance of the checking account is -362.74 dollars.

B)

<u>Check Register</u>				
<u>Check Number</u>	<u>Date</u>	<u>Description of Transaction</u>	<u>Payment</u>	<u>Deposit Balance</u>
				-90.28
	12/20	Paycheck	618.11	527.83
1752	12/22	Petcom	33.22	494.61
1753	12/22	Park & Shop	233.44	261.17
	1/02	ATM	100.00	161.17
	1/09	Rebate	21.01	140.16

The final balance of the checking account is 140.16 dollars.

C)

<u>Check Register</u>				
<u>Check Number</u>	<u>Date</u>	<u>Description of Transaction</u>	<u>Payment</u>	<u>Deposit Balance</u>
				-90.28
	12/20	Paycheck	618.11	527.83
1752	12/22	Petcom	33.22	561.05
1753	12/22	Park & Shop	233.44	794.49
	1/02	ATM	100.00	894.49
	1/09	Rebate	21.01	915.50

The final balance of the checking account is 915.50 dollars.

D)

<u>Check Register</u>				
<u>Check Number</u>	<u>Date</u>	<u>Description of Transaction</u>	<u>Payment</u>	<u>Deposit Balance</u>
				-90.28
	12/20	Paycheck	618.11	527.83
1752	12/22	Petcom	33.22	494.61
1753	12/22	Park & Shop	233.44	261.17
	1/02	ATM	100.00	161.17
	1/09	Rebate	21.01	182.18

The final balance of the checking account is 182.18 dollars.

182) A pet store is offering a sale of \$10 off the retail price of any of its pet beds or pet carriers.

182) _____

(i) Complete the table below to help find an expression that describes the sale price (in dollars) if the retail price is r dollars. Show the arithmetic to help you see a pattern.

(ii) Evaluate the expression you found in part (i) for $r = 84$. What does your result mean in this situation?

Retail and Sale Prices	
Retail Price (dollars)	Sale Price (dollars)
45	
65	
85	
105	
r	

A) (i) _____

Retail and Sale Prices	
Retail Price (dollars)	Sale Price (dollars)
45	$45 + (-10)$
65	$65 + (-20)$
85	$85 + (-30)$
105	$105 + (-40)$
r	$r + (-50)$

(ii) $84 + (-50) = 34$; This means that if the pet bed or pet carrier was originally retail priced at \$84, it would be on sale for \$34.

B) (i) _____

Retail and Sale Prices	
Retail Price (dollars)	Sale Price (dollars)
45	$45 + (-10)$
65	$65 + (-15)$
85	$85 + (-20)$
105	$105 + (-25)$
r	$r + (-30)$

(ii) $84 + (-30) = 54$; This means that if the pet bed or pet carrier was originally retail priced at \$84, it would be on sale for \$54.

C) (i) _____

Retail and Sale Prices	
Retail Price (dollars)	Sale Price (dollars)
45	$45 + (-10)$
65	$65 + (-10)$
85	$85 + (-10)$
105	$105 + (-10)$
r	$r + (-10)$

(ii) $84 + (-10) = 74$; This means that if the pet bed or pet carrier was originally retail priced at \$84, it would be on sale for \$74.

D) (i)

<u>Retail and Sale Prices</u>	
Retail Price (dollars)	Sale Price (dollars)
45	$45 + 10$
65	$65 + 10$
85	$85 + 10$
105	$105 + 10$
r	$r + 10$

(ii) $84 + 10 = 94$; This means that if the pet bed or pet carrier was originally retail priced at \$84, it would be now cost \$94.

- 183) On part of a scenic tour of underground caves, Dave and Neil started at an elevation of - 46 feet. They then rose 10 feet. What was their elevation at this point?

183) _____

A) 56 ft B) -36 ft C) 36 ft D) -56 ft

- 184) Sean has \$255 in his savings account. After he withdraws \$82, what will his balance be?

184) _____

A) \$173 B) - \$337 C) \$337 D) - \$173

- 185) Mr Lu Yi owed \$66 on his bank credit card. He charged another item costing \$14 . Find the amount that Lu Yi owed the bank.

185) _____

A) \$83 B) \$50 C) \$52 D) \$80

- 186) At the start of a chemistry experiment, Sarah measured the temperature of a liquid to be - 20°C. At the end of the experiment, it had risen 44°C. What was the liquid's temperature at the end of the experiment?

186) _____

A) 64°C B) -64°C C) -24°C D) 24°C

- 187) The temperature at 5:00 was -2°C. Four hours later, it was -15°C. What was the change in temperature?

187) _____

A) 13°C B) 17°C C) -17°C D) -13°C

- 188) A corporation's bank account has \$5233 in it when the treasurer writes checks for \$4996, \$4297, and \$5557. Then deposits of \$3695 and \$1040 are made. How much is in the account? Is it overdrawn?

188) _____

A) \$15,348, no B) \$675, no C) - \$4882, yes D) -\$15,348, yes

Find the difference.

189) $8 - 4$

189) _____

A) - 4 B) 2 C) 4 D) 12

190) $-2 - 7$

190) _____

A) -5 B) -9 C) 5 D) 9

191) $-7 - (-6)$

191) _____

A) -13 B) -1 C) 1 D) 13

192) $7 - (-4)$

192) _____

A) 11

B) -11

C) -3

D) 3

- 193) $4 - 4$ 193) _____
 A) 4 B) 1 C) - 4 D) 0
- 194) $0 - 5$ 194) _____
 A) 0 B) 5 C) - (- 5) D) - 5
- 195) $- 9 - 9$ 195) _____
 A) - 9 B) 0 C) 18 D) - 18
- 196) $- 4 - (- 4)$ 196) _____
 A) 4 B) - 4 C) 0 D) 1
- 197) $0 - (- 17)$ 197) _____
 A) 34 B) - 17 C) 17 D) 0
- 198) $2 - (- 2)$ 198) _____
 A) 4 B) - 4 C) 0 D) 2
- 199) $-7 - 23$ 199) _____
 A) -30 B) 30 C) -16 D) 16
- 200) $-9 - (- 19)$ 200) _____
 A) -28 B) 10 C) 28 D) -10
- 201) $- 40 - 50$ 201) _____
 A) 10 B) -90 C) -10 D) 90
- 202) $- 10 - (- 120)$ 202) _____
 A) 130 B) -110 C) -130 D) 110
- 203) $952 - (- 2430)$ 203) _____
 A) 1478 B) 3382 C) -1478 D) -3382
- 204) $845 - 482$ 204) _____
 A) - 363 B) - 1327 C) 363 D) 263
- 205) $- 372 - 916$ 205) _____
 A) - 544 B) - 1288 C) - 444 D) 544
- 206) $- 592 - (- 829)$ 206) _____
 A) - 1421 B) - 137 C) - 237 D) 237
- 207) $238 - (- 2187)$ 207) _____
 A) 1949 B) 2425 C) -1949 D) -2425
- 208) $- 382 - 557$ 208) _____
 A) 175 B) - 75 C) - 939 D) - 175

209) $-7.8 - (-12.9)$

A) -5.1

B) 5.1

C) -20.7

D) 20.7

209) _____

210) $-8.4 - 6.8$

A) 1.6

B) 15.2

C) -15.2

D) -1.6

210) _____

211) $17.6 - 16.9$

A) 34.5

B) -0.7

C) -34.5

D) 0.7

211) _____

212) $-47.64 - (-7.16)$

A) -54.80

B) 54.80

C) 40.48

D) -40.48

212) _____

213) $(-0.13) - (0.52)$

A) -0.65

B) -0.0676

C) -0.39

D) -0.29

213) _____

214) $0.93 - (-0.44)$

A) 0.4092

B) 0.49

C) 1.37

D) 1.47

214) _____

215) $\frac{-2}{3} - \frac{1}{9}$

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

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

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

D) $-\frac{22}{27}$

215) _____

216) $\frac{5}{9} - \frac{2}{5}$

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

B) $\frac{7}{45}$

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

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

216) _____

217) $\frac{4}{7} - \left(\frac{\frac{-3}{5}}{10} \right)$

A) $\frac{19}{70}$

B) $-\frac{1}{10}$

C) $\frac{61}{70}$

D) $-\frac{61}{70}$

217) _____

218) $-\frac{1}{7} - \frac{2}{3}$

A) $\frac{17}{21}$

B) $-\frac{17}{21}$

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

D) $-\frac{11}{21}$

218) _____

219) $-\frac{1}{3} - \left(\frac{\frac{3}{4}}{13} \right)$

$\frac{13}{—}$

A) $\frac{1}{12}$

B) $-\frac{1}{12}$

$\frac{1}{—}$

$\frac{5}{—}$

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

D) $\frac{1}{12}$

219) _____

$$220) -2 - \left(\begin{array}{c} 5 \\ 6 \end{array} \right)$$

6

B) $\frac{1}{12}$

C) $-\frac{7}{6}$

D) $-\frac{7}{6}$

6

6

6

220) _____

$$221) -\frac{1}{4} \left(\begin{array}{c} \frac{1}{10} \\ 1 \end{array} \right)$$

20

B) $-\frac{7}{20}$

C) $-\frac{1}{80}$

D) $-\frac{7}{20}$

221) _____

$$222) \frac{1}{15} \left(\begin{array}{c} -3 \\ 7 \end{array} \right)$$

13

13

1

A) $\frac{1}{60}$

B) $-\frac{1}{60}$

C) 60

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

222) _____

Use a calculator to compute. Round the result to two decimal places.

223) $-119.35 - 31.02$

A) -150.37

B) 88.33

C) -88.33

D) 150.37

223) _____

224) $-145.81 - 36.23$

A) -109.58

B) 182.04

C) 109.58

D) -182.04

224) _____

225) $-11,979.72 - 95,184.999$

A) $-83,205.28$

B) $-107,164.72$

C) $-11,979.72$

D) $83,205.28$

225) _____

$$226) \frac{22}{31} - \frac{19}{50}$$

A) 0.06

B) -1.09

C) 0.00

D) -0.33

226) _____

$$227) \frac{79}{96} - \left(\begin{array}{c} 41 \\ 81 \end{array} \right)$$

A) -0.21

B) -2.53

C) -1.33

D) -0.32

227) _____

Solve the problem.

228) The temperature at 5:00 was -3°C . Four hours later, it was -14°C . What was the change in temperature?

A) 17°C

B) -11°C

C) -17°C

D) 11°C

228) _____

229) The temperature on a February morning is -7°F at 6a.m. If the temperature drops 5° by 7 a.m., rises 4° by 8 a.m., and then drops 2° by 9a.m., find the temperature at 9 a.m.

A) 10°F

B) -18°F

C) -10°F

D) 18°F

229) _____

230) At the start of a chemistry experiment, Sarah measured the temperature of a liquid to be -3°C . At the end of the experiment, it had risen 32°C . What was the liquid's temperature at the end of the experiment?

A) 29°C

B) -29°C

C) 35°C

D) -35°C

230) _____

- 231) Sean has \$118 in his savings account. After he withdraws \$57, what will his balance be?
 A) - \$175 B) \$175 C) - \$61 D) \$61

231) _____

- 232) Raya has \$230 in her checking account. She writes a check for \$44, makes a deposit for \$74, and then writes another check for \$65. Find the amount left in her account.
 A) 195 dollars B) 47 dollars C) -195 dollars D) - 47 dollars

232) _____

- 233) The changes in retail sales (in billions of dollars) of hand- held computer games in Country X from one year to the next are given in the following table.

233) _____

Changes in Retail Sales of Hand- Held Computer Games	
Years	Changes in Retail Sales (billions of dollars)
1998- 1999	0.0
1999- 2000	-1.3
2000- 2001	-0.2
2001- 2002	0.0
2002- 2003	1.1
2003- 2004	2.1
2004- 2005	1.3

(i) If there were \$8.6 billion in sales in 1998, what were the sales during 2005?

(ii) During which period(s) were the retail sales increasing?

(iii) During which period(s) were the retail sales decreasing?

- | | |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| A) (i) 23.2 billion;
(ii) From 2002 to 2005;
(iii) From 1999 to 2001 | B) (i) 23.2 billion;
(ii) From 2001 to 2005;
(iii) From 1999 to 2002 |
| C) (i) \$11.6 billion;
(ii) From 2001 to 2005;
(iii) From 1999 to 2002 | D) (i) \$11.6 billion;
(ii) From 2002 to 2005;
(iii) From 1999 to 2001 |

- 234) Last year, enrollment at an art school was 17,556 students.

234) _____

- (i) Complete the table below to help find an expression that describes the current enrollment if the change in enrollment in the past year is c students. Show the arithmetic to help you see a pattern.
 (ii) Evaluate the expression you find in part (i) for $c = -250$. What does your result mean in this situation?

Changes in Enrollments and Current Enrollments	
Change in Enrollment	Current Enrollment
70	
105	
210	
315	
315	
525	
c	

A) (i)

Changes in Enrollments and Current Enrollments	
Change in Enrollment	Current Enrollment
70	17,556 - 70
105	17,556 - 105
210	17,556 - 210
315	17,556 - 315
315	17,556 - 315
525	17,556 - 525
c	17,556 - c

(ii) 17,806; This means that the current enrollment is 17,806 due to an increase in enrollment of 250 students in the past year.

B) (i)

Changes in Enrollments and Current Enrollments	
Change in Enrollment	Current Enrollment
70	70 + 17,556
105	105 + 17,556
210	210 + 17,556
315	315 + 17,556
315	315 + 17,556
525	525 + 17,556
c	c + 17,556

(ii) 17,306; This means that the current enrollment is 17,306 due to a decrease in enrollment of 250 students in the past year.

C) (i)

Changes in Enrollments and Current Enrollments	
Change in Enrollment	Current Enrollment
70	70 + 17,556
105	105 + 17,556
210	210 + 17,556
315	315 + 17,556
420	315 + 17,556
525	525 + 17,556
c	630c + 17,556

(ii) 175,056; This means that the current enrollment is 175,056 due to an increase in enrollment of 157,500 students in the past year.

D) (i)

Changes in Enrollments and Current Enrollments	
Change in Enrollment	Current Enrollment
70	70 - 17,556
105	105 - 17,556
210	210 - 17,556
315	315 - 17,556
315	315 - 17,556
525	525 - 17,556
c	c - 17,556

(ii) -17,806; This means that the current enrollment is -17,806 due to a decrease in enrollment of 250 students in the past year.

Evaluate the expression for the given replacement values.

235) $x + y$, for $x = -8$ and $y = -9$

A) 1

B) -17

C) 17

D) -1

235) _____

236) $y + x$, for $x = 2$ and $y = -6$ 236) _____
A) -4 B) 4 C) -8 D) 8

237) $x - y$ for $x = -21$, $y = 10$ 237) _____
A) -11 B) -31 C) 11 D) 31

238) $x - y$ for $x = -11$, $y = -3$ 238) _____
A) 14 B) 8 C) -14 D) -8

239) $x - y$ for $x = 8$, $y = -28$ 239) _____
A) 20 B) 36 C) -36 D) -20

240) $x - y$ for $x = -5$, $y = -30$ 240) _____
A) 35 B) 25 C) -35 D) -25

241) $x - y$ for $x = 10$, $y = 13$ 241) _____
A) 23 B) -23 C) 3 D) -3

Let x be a number. Translate the English phrase or sentence into a mathematical expression.

242) 44 less than a number 242) _____
A) $44 \div x$ B) $x + 44$ C) $44 - x$ D) $x - 44$

243) - 27 minus a number 243) _____
A) $-27 \div x$ B) $-27 - x$ C) $x - 27$ D) $x + 27$

244) Subtract 73 from a number 244) _____
A) $73 - x$ B) $73x$ C) 73 D) $x - 73$

245) Subtract - 39 from a number. 245) _____
A) $39 - x$ B) -39 C) $x - (-39)$ D) $-39x$

246) The difference of a number and - 79 246) _____
A) $-79x$ B) $-79 - x$ C) $-79 + x$ D) $x - (-79)$

247) Nine less than a number 247) _____
A) $x - 9$ B) $x + 9$ C) $9x$ D) $9 - x$

248) The number decreased by - 57 248) _____
A) $-57 \div x$ B) $x - (-57)$ C) $-57 + x$ D) $-57 - x$

249) 58 decreased by a number

A) $58 - x$

B) $58 \div x$

C) $x - 58$

D) $58 + x$

249) _____

250) - 22 decreased by a number

A) $-22 + x$

B) $x - (-22)$

C) $-22 \div x$

D) $-22 - x$

250) _____

251) A number decreased by two

A) $x + 2$

B) $2 - x$

C) $x - 2$

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

251) _____

Write the percentage as a decimal number.

252) 5%

A) 5

B) 0.05

C) 50.0

D) 0.5

252) _____

253) 72%

A) 72.0

B) 0.72

C) 0.072

D) 7.2

253) _____

254) 60%

A) 6

B) 0.49

C) 0.06

D) 0.6

254) _____

255) 80%

A) 0.8

B) 80.0

C) 0.08

D) 8

255) _____

256) 74%

A) 74.0

B) 0.074

C) 7.4

D) 0.74

256) _____

257) 2.5%

A) 0.25

B) 2.5

C) 25.0

D) 0.025

257) _____

258) 33.7%

A) 33.7

B) 0.0337

C) 0.337

D) 3.37

258) _____

259) 0.1%

A) 0.1

B) 0.01

C) 0.002

D) 0.001

259) _____

Write the decimal number as a percentage.

260) 0.3

A) 0.03%

B) 0.3%

C) 300%

D) 30%

260) _____

261) 0.58

A) 0.058%

B) 58%

C) 5.8%

D) 580%

261) _____

262) 0.074

A) 7.4%

B) 0.074%

C) 74%

D) 0.74%

262) _____

263) 0.202

A) 0.202%

B) 202%

C) 0.0202%

263) _____

264) 0.002

A) 0.2%

B) 2%

C) 0.002%

264) _____

Solve the problem.

265) Find 5% of 300 cars.

A) 0.15 cars

B) 1.5 cars

C) 150 cars

265) _____

- 266) Find 10% of 700 boxes. A) 70 boxes B) 700 boxes C) 7 boxes D) 0.7 boxes 266) _____
- 267) Find 5% of \$700. A) \$350 B) \$35 C) \$0.35 D) \$3.50 267) _____
- 268) Find 30% of \$297,000. A) \$9900 B) \$891 C) \$8910 D) \$89,100 268) _____
- 269) Find 60% of 230 doctors. A) 138 doctors B) 383 doctors C) 26 doctors D) 92 doctors 269) _____
- 270) Find 9% of 3800 computers. A) 34 computers B) 342 computers C) 3420 computers D) 34,200 computers 270) _____
- 271) Find 38% of 1318 oz. A) 50.08 oz B) 5008.4 oz C) 500.84 oz D) 50,084 oz 271) _____
- 272) Find 83% of 120 km. A) 9960 km B) 996 km C) 99.6 km D) 9.96 km 272) _____
- Find the product.**
- 273) $-11(14)$ A) 143 B) -168 C) -143 D) -154 273) _____
- 274) $-9(-6)$ A) 54 B) 64 C) 108 D) -54 274) _____
- 275) $12(-7)$ A) -840 B) -184 C) -96 D) -84 275) _____
- 276) $0(-12)$ A) -24 B) 12 C) -12 D) 0 276) _____
- 277) $-17(-17)$ A) -306 B) 306 C) 289 D) -289 277) _____
- 278) $4(7)$ A) 28 B) 280 C) 18 D) 24 278) _____
- 279) $-2.6(-18)$ A) 20.6 B) -15.4 C) 46.8 D) -20.6 279) _____
- 280) $37(-67)$ A) 2579 B) -2469 C) -2479 D) 2489 280) _____
- 281) $-22(-698)$ A) -15,366 B) 15,366 C) -15,356 D) 15,356 281) _____

282) $\left(-\frac{1}{3} \right) \left(\frac{1}{5} \right)$ 282) _____
 A) $-\frac{1}{4}$ B) $\frac{1}{15}$ C) $\frac{1}{4}$ D) $-\frac{1}{15}$

283) $\left(-\frac{1}{8} \right) \left(\frac{5}{2} \right)$ 283) _____
 A) $-\frac{5}{16}$ B) $\frac{5}{56}$ C) $-\frac{5}{56}$ D) $\frac{2}{5}$

284) $\frac{7}{6} \left(-\frac{3}{8} \right)$ 284) _____
 A) $-\frac{5}{16}$ B) $\frac{5}{16}$ C) $-\frac{7}{16}$ D) $\frac{7}{16}$

285) $\left(-\frac{1}{10} \right) \left(-\frac{5}{8} \right)$ 285) _____
 A) $\frac{1}{16}$ B) $-\frac{1}{3}$ C) 13 D) $-\frac{1}{6}$

Find the quotient.

286) $-90 \div 9$ 286) _____
 A) $-\frac{1}{10}$ B) 10 C) -900 D) -10

287) $-70 \div (-10)$ 287) _____
 A) $\frac{1}{7}$ B) 7 C) -700 D) -7

288) $100 \div (-10)$ 288) _____
 A) -1000 B) 10 C) -10 D) $-\frac{1}{10}$

289) $-\frac{20}{4}$ 289) _____
 A) 5 B) $-\frac{1}{5}$ C) -200 D) -5

290)

- 48

- 6

A)

$\bar{8}$ D) 8
B }
 $\frac{4}{8}$
C
 $\frac{1}{8}$

290)

$$291) \frac{35}{-5}$$

A) -350

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

C) -7

D) 7

291) _____

$$292) -16 \div (-1)$$

A) -16

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

C) $-\frac{1}{16}$

D) 16

292) _____

$$293) -2 \div 2$$

A) -2

B) 0

C) 1

D) -1

293) _____

$$294) -76 \div 4$$

A) -19

B) 19

C) -29

D) $-\frac{1}{19}$

294) _____

$$295) 66 \div (-3)$$

A) $-\frac{1}{22}$

B) 22

C) -32

D) -22

295) _____

$$296) -120 \div (-5)$$

A) 14

B) $\frac{1}{24}$

C) 24

D) -24

296) _____

$$297) -26 \div (13)$$

A) 2

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

C) -2

D) -12

297) _____

$$298) 135 \div (-45)$$

A) -3

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

C) -13

D) 3

298) _____

$$299) \frac{-28}{-2}$$

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

B) 4

C) 14

D) -14

299) _____

$$300) 672 \div (-42)$$

A) 17

B) -16

C) 16

D) -17

300) _____

$$301) -27.6 \div (-3)$$

A) -9.2

B) 6.1

C) 9.2

$$301) \quad \underline{\hspace{2cm}}$$

D) $-\frac{1}{9.2}$

$$302) \quad 38.7 \div (-9)$$

A) $-\frac{1}{4.3}$

B) 6.1

C) 4.3

D) -4.3

$$302) \quad \underline{\hspace{2cm}}$$

$$303) - 52.45 \div 5$$

A) - 10.89

B) 10.89

C) 10.49

D) - 10.49

303) _____

$$304) - 48.06 \div (- 8.9)$$

A) - 5.4

B) 5.4

C) - 0.54

D) 0.54

304) _____

$$305) \frac{9}{24} \div (- 7)$$

A) $\frac{3}{56}$

B) $-\frac{21}{8}$

C) $\frac{3}{56}$

D) $-\frac{56}{3}$

305) _____

$$306) - 7 \div \left(-\frac{9}{17} \right)$$

A) $\frac{9}{119}$

B) $-\frac{119}{9}$

C) $-\frac{9}{119}$

D) $\frac{119}{9}$

306) _____

$$307) \frac{2}{5} \div \frac{3}{4}$$

A) $\frac{15}{8}$

B) $\frac{8}{15}$

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

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

307) _____

$$308) \frac{1}{4} \div \left(-\frac{\frac{5}{7}}{20} \right)$$

A) $-\frac{28}{7}$

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

C) $-\frac{7}{20}$

D) $-\frac{5}{28}$

308) _____

$$309) \left(-\frac{5}{9} \right) \left(-\frac{7}{2} \right)$$

A) $\frac{35}{18}$

B) $-\frac{63}{10}$

C) $-\frac{18}{35}$

D) $\frac{10}{63}$

309) _____

$$310) - \frac{5}{6} \div \frac{7}{4}$$

A) $\frac{35}{24}$

B) $-\frac{21}{10}$

C) $-\frac{24}{35}$

D) $-\frac{10}{21}$

310) _____

$$311) \left(-\frac{5}{13} \right) \left(-\frac{20}{91} \right)$$

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

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

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

311) _____

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

B) $-\frac{1}{4}$

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

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

312) $-264.5 \div (-23)$

A) 11.5

B) -125

C) 12.5

D) -115

312) _____

313) $-1086.75 \div 31.5$

A) 34.5

B) 3.45

C) -3.45

D) -34.5

313) _____

314) $-376.53 \div 0$

A) undefined

B) $-\frac{1}{376.53}$

C) 0

D) -376.53

314) _____

Simplify.

315) $\frac{-45}{-9}$

A) -5

B) 5

C) -450

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

315) _____

316) $\frac{26}{-117}$

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

B) $\frac{13}{9}$

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

D) $\frac{-13}{9}$

316) _____

317) $\frac{90}{-10}$

A) 9

B) -9

C) -900

D) $-\frac{1}{9}$

317) _____

318) $\frac{-9}{-1}$

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

B) -9

C) 9

D) $-\frac{1}{9}$

318) _____

319) $\frac{-18}{48}$

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

B) $-\frac{6}{8}$

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

D) $-\frac{3}{8}$

319) _____

320) $\frac{196}{-7}$

A) 28

B) -28

C) -38

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

320) _____

321) $\frac{-200}{-8}$

A) 15

B) -25

C) 25

D) $\frac{1}{25}$

321) _____

322) $\frac{-30}{-51}$

A) $-\frac{3}{17}$

17

B) $\frac{10}{17}$

322)

$$\begin{array}{r} \text{C) } \\ - \\ \frac{1}{17} \\ \hline \end{array}$$

$\frac{3}{1}$

$\frac{1}{7}$

D)

Perform the indicated operation.

$$323) \begin{array}{r} \frac{2}{-3} \\ \hline -2 \\ \hline 9 \end{array}$$

A) $-\frac{25}{27}$

B) $-\frac{8}{9}$

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

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

323) _____

$$324) \begin{array}{r} \frac{3}{4} \\ -\frac{1}{20} \\ \hline 1 \end{array}$$

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

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

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

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

324) _____

$$325) \begin{array}{r} \frac{8}{9} \\ +\frac{2}{7} \\ \hline 38 \end{array}$$

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

B) $\frac{1}{63}$

38

2

2

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

D) $\frac{1}{21}$

325) _____

$$326) \begin{array}{r} \frac{6}{-9} \\ \hline -1 \\ \hline 4 \end{array}$$

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

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

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

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

—

326) _____

$$327) \begin{array}{r} \frac{1}{25} \\ -\frac{3}{20} \\ \hline 7 \end{array}$$

19

A) $\frac{1}{100}$

B) $\frac{1}{100}$

$\frac{19}{100}$

$\frac{4}{25}$

C) $-\frac{1}{100}$

D) $-\frac{1}{25}$

327) _____

$$328) \begin{array}{r} \frac{1}{-30} \\ +\frac{5}{-12} \\ \hline 9 \end{array}$$

9

7

7

328) _____

A) —

B) - —

C) —

D) - —

20

20

60

60

Use a calculator to perform the indicated operation. Round the result to two decimal places.

329) $921.449 \div (-26.11)$

A) 35.29

B) 0.03

C) -35.29

D) -0.03

329) _____

$$330) -\frac{22}{53} \left(-\frac{373}{776} \right)$$

A) 5.01

B) -0.20

C) -5.01

D) 0.20

330) _____

Evaluate the expression for the given value or values.

$$331) 8x, \text{ for } x = -9$$

A) 72

B) $-\frac{9}{8}$

C) $-\frac{8}{9}$

D) -72

331) _____

$$332) -3x, \text{ for } x = -7$$

A) 21

B) $-\frac{3}{7}$

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

D) -21

332) _____

$$333) xy, \text{ for } x = -7, y = -4$$

A) 28

B) 11

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

D) -28

333) _____

$$334) xy, \text{ for } x = -3, y = 6$$

A) -18

B) 18

C) $\frac{6}{3}$

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

334) _____

$$335) -xy \text{ for } x = 3, y = -35$$

A) -98

B) -105

C) 98

D) 105

335) _____

$$336) -xy \text{ for } x = 3, y = 66$$

A) 198

B) -198

C) 189

D) -189

336) _____

$$337) -xy \text{ for } x = -6, y = -87$$

A) -522

B) -493

C) 522

D) 493

337) _____

$$338) \frac{y}{z} \text{ for } y = -16, z = 8$$

A) -8

B) 8

C) -2

D) 2

338) _____

$$339) \frac{z}{y}, \text{ for } y = -56, z = 7$$

y

A) 8

B) $-\frac{1}{8}$

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

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

339) _____

$$340) \frac{z}{y}, \text{ for } y = -18, z = -2$$

340) _____

y

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

B) 9

C) $-\frac{1}{9}$

D) -9

$$341) -\frac{y}{z} \text{ for } y = -30, z = 6$$

for $x = 208, y = -4$

A) -5

B) -6

C) 5

D) 6

y
A) 55

$$342) -\frac{y}{z} \text{ for } y = -24, z = -3$$

B) -
52

A) 8

B) -3

C) -8

D) 3

$$343) \frac{x}{y}$$

52

D) -55

341) _____

342) _____

343) _____

- 344) $\frac{-x}{y}$ for $x = -540$, $y = 9$ 344) _____
- A) -63 B) 60 C) -60 D) 63
- 345) $\frac{y}{x}$ for $x = 378$, $y = -7$ 345) _____
- A) -54 B) $\frac{1}{54}$ C) 54 D) $-\frac{1}{54}$
- 346) $\frac{y}{x}$ for $x = -285$, $y = -5$ 346) _____
- A) $\frac{1}{57}$ B) $-\frac{1}{57}$ C) -57 D) 57
- 347) $-\frac{y}{x}$ for $x = -472$, $y = -8$ 347) _____
- A) $\frac{1}{59}$ B) 59 C) -59 D) $-\frac{1}{59}$
- 348) $\frac{x}{y}$ for $x = -408$, $y = 0$ 348) _____
- A) 0 B) -408 C) 408 D) undefined
- 349) $\frac{y}{x}$ for $x = -440$, $y = 0$ 349) _____
- A) 440 B) 0 C) -440 D) undefined
- 350) $-\frac{y}{x}$ for $x = -224$, $y = 0$ 350) _____
- A) 0 B) 224 C) -224 D) undefined
- Let x be a number. Translate the English phrase or sentence into a mathematical expression.**
- 351) -4 times a number 351) _____
- A) $-4 \div x$ B) $4x$ C) $-4 + x$ D) $-4x$
- 352) The product of -4 and a number 352) _____
- $\underline{-4}$ A) $4x$ B) $\frac{x}{-4}$ C) $-4x$ D) $\frac{x}{-4}$
- 353) A number divided by -68 353) _____
- A) $x \div (-68)$ B) $-68x$ C) $x - 68$ D) $-68 \div x$

354) The quotient of - 21 and a number

A) $x - 21$

B) $21 - x$

C) $\frac{-21}{x}$

D) $\frac{x}{-21}$

354) _____

355) Four divided by a number

- A) $4 - x$ B) $-4x$ C) $4 \div x$ D) $x \div (-4)$

355) _____

Write the ratio as a fraction.

356) the ratio of 9 to 15

- A) $\frac{3}{15}$ B) $\frac{9}{3}$ C) $\frac{3}{5}$ D) $\frac{9}{5}$

356) _____

357) the ratio of 44 to 76

- A) $\frac{11}{76}$ B) $\frac{44}{19}$ C) $\frac{19}{76}$ D) $\frac{11}{19}$

357) _____

358) the ratio of 30 to 51

- A) 3 B) $\frac{10}{51}$ C) $\frac{3}{51}$ D) $\frac{10}{17}$

358) _____

Solve the problem.

359) A science experiment requires 558 milliliters of substance X and 18 milliliters of substance Y. Find the unit ratio of substance X to substance Y. What does your result mean in this situation?

$\frac{31.5}{1}$; For every ml of substance Y used, 31.5 ml of substance X must be used.

359) _____

- A) 1
 $\frac{31}{1}$; For every ml of substance Y used, 31 ml of substance X must be used.
B) 1
 $\frac{1}{31}$; For every ml of substance X used, 31 ml of substance Y must be used.
C) 31
 $\frac{1}{31}$; For every ml of substance X used, 30.5 ml of substance Y must be used.
D) 30.5

360) There were 916 billionaires in a certain country this year and 71 billionaires in this same country two years ago. Find the unit ratio of the number of billionaires this year to the number from two years ago. What does your result mean in this situation?

$\frac{0.1}{1}$; The number of billionaires this year was 0.1 times greater than two years ago.

360) _____

- A) 1
 $\frac{12.9}{1}$; The number of billionaires this year was 12.9 times greater than two years ago.
B) 1
 $\frac{12.4}{1}$; The number of billionaires this year was 12.4 times greater than two years ago.
C) 1
 $\frac{13.7}{1}$; The number of billionaires this year was 13.7 times greater than two years ago.
D) 1

- 361) A person has credit card balances of – 2958 dollars on a Store A account and – 30 dollars on a Store B account. Find the unit ratio of the Store A account to the Store B account. If the person wishes to pay off both accounts gradually in the same amount of time, describe how the unit ratio can help guide the person in making his next payment.

361) _____

98.60; For each \$1 he pays to his Store B account, he should pay \$98.60 to his Store A

A) 1

account.

98.65; For each \$1 he pays to his Store B account, he should pay \$98.65 to his Store A

B) 1

account.

102.50; For each \$1 he pays to his Store B account, he should pay \$102.50 to his Store A

C) 1

account.

91.70; For each \$1 he pays to his Store B account, he should pay \$91.70 to his Store A

D) 1

account.

- 362) The average number of viewers per day for TV Show A is 5.0 million viewers while the average number of viewers per day for TV Show B is 7.0 million viewers. Find the unit ratio of the average number of viewers per day of TV Show B to the average number of viewers per day of TV Show A. What does your result mean in this situation?

362) _____

A) $\frac{1.4}{1}$; For every viewer watching TV Show A, there are about 1.4 viewers watching TV Show

B.

B) $\frac{5.25}{1}$; For every viewer watching TV Show A, there are about 5.25 viewers watching TV

Show B.

C) $\frac{1.5}{1}$; For every viewer watching TV Show A, there are about 1.5 viewers watching TV Show

B.

D) $\frac{7.5}{1}$; For every viewer watching TV Show A, there are about 7.5 viewers watching TV Show

B.

- 363) The populations and land areas are shown in the table for various regions:

363) _____

Populations and Land Areas		
Region	Population	Land Area (square miles)
Region K	536,808	401,016
Region L	22,701,152	376,440
Region M	5,550,376	17,970
Region N	8,636,051	9506
Region O	12,984,711	63,088

- (i) The unit ratio of population to land area is called the *population density*. Find the population density of each region listed in the table.
- (ii) Which region listed in the table has the greatest population density?
- (iii) Which region listed in the table has the least population density?

A) (i) Region K: $\frac{669 \text{ people}}{\text{square mile}}$; Region L: $\frac{1508 \text{ people}}{\text{square mile}}$; Region M: $\frac{309 \text{ people}}{\text{square mile}}$

Region N: $\frac{454 \text{ people}}{\text{square mile}}$; Region O: $\frac{206 \text{ people}}{\text{square mile}}$

- (ii) Region L has the greatest population density.
(iii) Region K has the least population density.

B) (i) Region K: $\frac{1 \text{ person}}{\text{square mile}}$; Region L: $\frac{60 \text{ people}}{\text{square mile}}$; Region M: $\frac{309 \text{ people}}{\text{square mile}}$

Region N: $\frac{908 \text{ people}}{\text{square mile}}$; Region O: $\frac{206 \text{ people}}{\text{square mile}}$

- (ii) Region N has the greatest population density.
(iii) Region K has the least population density.

C) (i) Region K: $\frac{3 \text{ people}}{\text{square mile}}$; Region L: $\frac{60 \text{ people}}{\text{square mile}}$; Region M: $\frac{463 \text{ people}}{\text{square mile}}$

Region N: $\frac{908 \text{ people}}{\text{square mile}}$; Region O: $\frac{2058 \text{ people}}{\text{square mile}}$

- (ii) Region O has the greatest population density.
(iii) Region K has the least population density.

D) (i) Region K: $\frac{2677 \text{ people}}{\text{square mile}}$; Region L: $\frac{121 \text{ people}}{\text{square mile}}$; Region M: $\frac{834 \text{ people}}{\text{square mile}}$

Region N: $\frac{908 \text{ people}}{\text{square mile}}$; Region O: $\frac{412 \text{ people}}{\text{square mile}}$

- (ii) Region K has the greatest population density.
(iii) Region L has the least population density.

364) A person has a zero balance on a credit card. The person uses the credit card to buy 4 DVDs at a cost of \$13.99 per DVD. What is the new balance?

364) _____

- A) -13.99 dollars B) 55.96 dollars C) -17.99 dollars D) -55.96 dollars

Perform the exponentiation.

365) 110

365) _____

- A) 10 B) 1 C) $\frac{1}{10}$ D) 1.1

366) 7¹

366) _____

- A) 1 B) 1.14285714 C) $\frac{1}{7}$ D) 7

367) (-1)¹³

367) _____

- A) 1 B) 13 C) -1 D) -13

368) 8²

368) _____

- A) 17 B) 16 C) 64 D) 65

369) (-5)²

369) _____

- A) 25 B) 10 C) -25 D) -10

370) $(-7)^3$

A) -21

B) -343

C) 21

D) 343

370) _____

371) -6^3

A) 216

B) 18

C) -18

D) -216

371) _____

372) 6^3

A) 216

B) 18

C) 125

D) 729

372) _____

373) 11^4

A) 14,641

B) 4,194,304

C) 1331

D) 44

373) _____

374) $(-2)^4$

A) 4

B) -16

C) 16

D) -4

374) _____

375) 10^5

A) 1,000,000

B) 9,765,625

C) 50

D) 100,000

375) _____

376) $\begin{pmatrix} 4 \\ 5 \end{pmatrix}^3$

A) 3.8

B) $\frac{125}{64}$

C) $\frac{64}{125}$

D) $\frac{64}{5}$

376) _____

377) $\begin{pmatrix} r^2 \\ 6 \end{pmatrix}$

A) $\frac{1}{36}$

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

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

—

377) _____

378) $\begin{pmatrix} z^3 \\ 5 \end{pmatrix}$

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

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

378)

A) $\frac{49}{25}$

B) $\frac{343}{125}$

C) $-\frac{343}{125}$

D) $-\frac{343}{5}$

379) $\left| -\frac{7}{5} \right|^2$

A) $\frac{49}{5}$

B) $-\frac{49}{5}$

C) $\frac{49}{25}$

D) $-\frac{49}{25}$

379) _____

Perform the indicated operations.380) $36 + 5 - 3$

A) 8

B) 52

C) 38

D) 118

380) _____

$$381) 7 \bullet 9 - 4$$

A) 59

B) 67

C) 252

D) 35

$$381) \underline{\hspace{2cm}}$$

- 382) $11 \bullet 5 \div 7$ A) 385 B) 7.86 C) 23 D) 48 382) _____
- 383) $-4 \bullet 6 + 12$ A) -36 B) 24 C) -72 D) -12 383) _____
- 384) $240 \div 5 - 3$ A) 232 B) 120 C) 238 D) 45 384) _____
- 385) $11 + 25 \bullet 18$ A) 54 B) 648 C) 461 D) 293 385) _____
- 386) $-17 + 160 \div (-8)$ A) 18 B) 37 C) -37 D) -18 386) _____
- 387) $\frac{7+2}{1+2}$ A) 3 B) -5 C) -9 D) $\frac{5}{3}$ 387) _____
- 388) $\frac{3-7}{7-3}$ A) -4 B) -1 C) $\frac{3}{7}$ D) $-\frac{3}{7}$ 388) _____
- 389) $12 \bullet 3 + 13 \bullet 5$ A) 245 B) 960 C) 101 D) 816 389) _____
- 390) $20 + 26 \bullet 4 - 10$ A) 40 B) 174 C) -276 D) 114 390) _____
- 391) $-3(8) - (-14) \bullet 1$ A) 10 B) 18 C) -38 D) -10 391) _____
- 392) $6 + 11 \bullet 18 - (-9)$ A) 195 B) 315 C) 44 D) 213 392) _____
- 393) $10 + (-24)(-8) + (-5)$ A) 102 B) 37 C) 197 D) 267 393) _____
- 394) $70 - 3 \bullet 20 + 171 \div (-19)$ A) -14 B) -674 C) 1 D) 1331 394) _____
- 395) $93 - 3 \bullet 22 + 144 \div 18$ A) 14 B) 35 C) 1988 D) 830 395) _____

- 396) $\frac{8(8)+6}{1-3(6)}$ 396) _____
 A) $-\frac{112}{17}$ B) $-\frac{35}{6}$ C) $\frac{70}{17}$ D) $-\frac{70}{17}$
- 397) $35 \div 7(6 - 2)$ 397) _____
 A) 2940 B) 7 C) 20 D) -9
- 398) $250 \div (25 \div 5)$ 398) _____
 A) 245 B) 50 C) 2 D) 10
- 399) $2 \bullet 5 + 9(10 - 5) + 6$ 399) _____
 A) 101 B) 109 C) 146 D) 61
- 400) $270 \div 9 - (3 + 1)$ 400) _____
 A) 27 B) 54 C) 26 D) 28
- 401) $36 \div 6 \bullet (15 - 7)$ 401) _____
 A) 48 B) 97 C) 132 D) 83
- 402) $-15 + (5 \bullet 2 + 30) \div 5$ 402) _____
 A) 1 B) 3 C) -7 D) 7
- 403) $12 \bullet 8 - (15 - 6) \div 3 - (6 - 4)$ 403) _____
 A) 91 B) 23 C) 27 D) 83
- 404) $9^2 - 4 \bullet 2$ 404) _____
 A) 154 B) 50 C) 73 D) 90
- 405) $(4 + 6)^2$ 405) _____
 A) 52 B) 100 C) 40 D) 22
- 406) $5^2 + 3^3$ 406) _____
 A) 37 B) 34 C) 52 D) 19
- 407) $5^4 - 25$ 407) _____
 A) 999 B) 10 C) 657 D) 593
- 408) $5^3 - (-2)^4$ 408) _____
 A) 23 B) 109 C) -1 D) 141
- 409) $4^2 - (-2)^3$ 409) _____
 A) 8 B) 24 C) 14 D) 25
- 410) $(-6)^2 - (-4)^3$ 410) _____
 A) -100 B) 100 C) 28 D) -28

411) $4 + 6^2 \bullet 20 - (-30)$

A) 830

B) 60

C) 94

411) _____

412) $7^2 - 6(3) + 20 \div 5$

A) 125

B) $\frac{51}{5}$

C) 7

D) 754

412) _____

413) $6 + 12^2 - (-3) \bullet 4$

A) 588

B) 162

C) 138

D) 132

413) _____

414) $(15 - 12)^2 + (1 + 6)^2$

A) 100

B) 58

C) 118

D) 46

414) _____

415) $4^2 - 2^3 + 2^2 - 4^3$

A) -44

B) -52

C) 52

D) 44

415) _____

416) $4 \bullet (4 + 3)^2 - 4 \bullet (5 - 3)^2$

A) 345

B) 720

C) 180

D) 768

416) _____

417) $12^2 + 11 \bullet 9 - (11 + 5 \bullet 5)$

A) 163

B) 207

C) 1359

D) 257

417) _____

418) $\frac{153 + 7}{3^2 - 4}$

A) 48

B) 30

C) 32

D) 80

418) _____

419) $\frac{48 \bullet (14 - 11) - 18}{3^2 - 3}$

A) 24

B) 42

C) 21

D) 25

419) _____

420) $(-28) \div (-7) \bullet \left(\begin{array}{c} 1 \\ \frac{1}{9} \end{array} \right)$

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

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

C) -36

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

420) _____

421) $\frac{1}{7} + \frac{1}{2} \bullet \frac{1}{3}$

A) $\frac{13}{35}$

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

C) $\frac{35}{6}$

D) $\frac{17}{14}$

421) _____

422) $-4 + \frac{1}{2} \div \frac{1}{5}$

A) $\frac{201}{100}$

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

C) $\frac{9}{200}$

D) $\frac{9}{100}$

422) _____

423) $-\frac{9}{50} + \frac{1}{4} \div \frac{1}{5}$

A) $\frac{241}{100}$

B) $\frac{107}{100}$

C) $\frac{107}{200}$

D) $-\frac{143}{100}$

423)

424) $\frac{5}{4} \bullet \frac{1}{6} + \frac{4}{5} \bullet \frac{1}{4}$

A) $\frac{49}{88}$

B) $\frac{11}{30}$

C) $\frac{49}{72}$

D) $\frac{49}{120}$

424)

425) $\frac{1}{5} + \frac{3}{4} \div \left(\frac{-1}{5} \right) \cdot \frac{3}{5}$

A) $-\frac{41}{20}$

B) $-\frac{121}{20}$

C) $-\frac{57}{20}$

D) $-\frac{95}{12}$

425)

426) $\frac{1}{2} \div \frac{4}{5} - 8 \bullet \left(\frac{1}{4} \right)^2$

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

B) $-\frac{59}{128}$

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

D) $-\frac{\overline{27}}{8}$

426)

427) $85 - 2 \bullet 18 + 171 \bullet \left(-\frac{1}{9} \right)$

A) -1743

B) 30

C) 1475

D) -30

427)

Use a calculator to perform the indicated operation.

428) $13.74 + 57.2(28.3) - 3.17 \div 1.22$ (round to two decimal places)

A) 2005.00

B) 1629.90

C) -1602.42

D) 1335.52

428)

429) $\frac{(35.47)(-9.57) + 42.4}{73.71 - 20.72}$ (round to two decimal places)

A) -24.75

B) -5.61

C) -4.04

D) 21.98

429)

430) $16.1 \div 0.4(0.3) + (1.7)^2$

A) 19.365

B) 14.965

C) 16.465

D) 12.565

430)

Evaluate the expression for the given value or values.

431) $6x + 5$ for $x = 8$

A) 43

B) 53

C) 96

D) 11

431)

432) $-3x^2$ for $x = 3$

A) 27

B) -27

69

C) 81

D) -81

432)

434) $x^2 - 9$ for $x = -1$

A) -8

B) -3

C) 8

D) -9

434) _____

435) $3x^2 + 7x$ for $x = 4$

A) 20

B) 40

C) 52

D) 76

435) _____

436) $-7x^2 - 5x + 1$ for $x = -3$

A) -57

B) -47

C) 37

D) -51

436) _____

437) $4x^2 - 5x - 9$ for $x = -1$

A) -8

B) -10

C) 0

D) -18

437) _____

438) $\frac{a-9}{a+6}$ for $a = -4$

A) $-\frac{1}{2}$ B) $-\frac{2}{13}$ C) $-\frac{13}{2}$

D) -2

438) _____

439) $\frac{a+5}{3a+1}$ for $a = 4$

A) $\frac{9}{13}$ B) $\frac{9}{4}$ C) $\frac{13}{9}$ D) $\frac{5}{4}$

439) _____

440) $\frac{a^2}{1-a^2}$ for $a = 4$

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

440) _____

441) $4x + 2y$ for $x = 8, y = 3$

A) 34

B) 10

C) 6

D) 38

441) _____

442) $9x - 3y$ for $x = 6, y = 5$

A) 39

B) 69

C) 49

D) 51

442) _____

443) $\frac{5x}{y}$ for $x = 18, y = 6$

A) 15

B) 75

C) 30

D) 60

443) _____

444) $\frac{x+y}{7}$ for $x = 42, y = 21$

A) 45

B) 9

C) 63

D) 27

444) _____

445) $x^2 - 2y$ for $x = 8, y = 2$

A) 68

B) 60

C) 12

D) 20

A) 334

446) $9x^2 + 2y$ for $x = 6, y = 5$

B)

237

C)

2926

D) 1710

445) _____

446) _____

447) $a^3 - (-b)^2$ for $a = 2, b = 2$

A) 13

B) 12

C) 10

D) 4

447) _____

448) $x - y + z$ for $x = 18, y = 7, z = 2$

A) 27

B) 13

C) 9

D) 14

448) _____

449) $x - 4yz$ for $x = 97, y = 2, z = 6$

A) 49

B) 1116

C) 85

D) 534

449) _____

450) $a \bullet b \div c$ for $a = 24, b = 9, c = 3$

A) 36

B) 72

C) 213

D) 648

450) _____

451) $a^2 - b \bullet c$ for $a = 7, b = 2, c = 9$

A) 31

B) 225

C) 423

D) 315

451) _____

 $a + b$

452) $\frac{a}{c+d}$ for $a = 5, b = 10, c = 9, d = 3$

A) $-\frac{5}{12}$ B) $-\frac{5}{6}$ C) $\frac{5}{2}$ D) $\frac{5}{4}$

452) _____

453) $\frac{a+b}{c^2-d}$ for $a = 63, b = 7, c = 3, d = 4$

A) 35

B) 14

C) 21

D) 12

453) _____

Let x be a number. Translate the English phrase or sentence into a mathematical expression.

454) -3 decreased by 5 times a numberA) $-3x - 5$ B) $5x - 3$ C) $-3 - 5x$ D) $5 - 3x$

454) _____

455) 9 less than -3 times a numberA) $-3x - 9$ B) $-3 - 9x$ C) $9 - 3x$ D) $9x - 3$

455) _____

456) 5 more than 3 times a numberA) $3(5+x)$ B) $3x + 5$ C) $5x + 3$ D) $8x$

456) _____

Solve the problem.

457) In Country X, teacher pay in 1980 was \$21.0 thousand and has increased by approximately \$5 thousand per year since then.

(i) Complete the table below to help find an expression that stands for the teacher pay (in thousands of dollars) at t years since 1980. Show the arithmetic to help you see a pattern.

(ii) E
v
al
u
at

e the expression that you found in part (i) for $t = 30$. What does your result mean in this situation?

457) _____

<u>Numbers of Years and Teacher Pay</u>	
<u>Years</u>	<u>Teacher Pay</u>
<u>Since 1980</u>	<u>(thousands of dollars)</u>
0	
1	
2	
3	
4	
t	

A) (i)

<u>Numbers of Years and Teacher Pay</u>	
<u>Years</u>	<u>Teacher Pay</u>
<u>Since 1980</u>	<u>(thousands of dollars)</u>
0	$-5 \bullet 0 + 21.0$
1	$-5 \bullet 1 + 21.0$
2	$-5 \bullet 2 + 21.0$
3	$-5 \bullet 3 + 21.0$
4	$-5 \bullet 4 + 21.0$
t	$-5t + 21.0$

(ii) -129; Teacher pay will be about -\$129 thousand in 2010.

B) (i)

<u>Numbers of Years and Teacher Pay</u>	
<u>Years</u>	<u>Teacher Pay</u>
<u>Since 1980</u>	<u>(thousands of dollars)</u>
0	$5 \bullet 0 + 21.0$
1	$5 \bullet 1 + 21.0$
2	$5 \bullet 2 + 21.0$
3	$5 \bullet 3 + 21.0$
4	$5 \bullet 4 + 21.0$
t	$5t + 21.0$

(ii) 171; Teacher pay will be about \$171 thousand in 2010.

C) (i)

<u>Numbers of Years and Teacher Pay</u>	
<u>Years</u>	<u>Teacher Pay</u>
<u>Since 1980</u>	<u>(thousands of dollars)</u>
0	$5 + 0 + 21.0$
1	$5 + 1 + 21.0$
2	$5 + 2 + 21.0$
3	$5 + 3 + 21.0$
4	$5 + 4 + 21.0$
t	$5 + t + 21.0$

(ii) 56; Teacher pay will be about \$56 thousand in 2010.

D) (i)

Numbers of Years and Teacher Pay	
Years	Teacher Pay
Since 1980	(thousands of dollars)
0	$5 - 0 + 21.0$
1	$5 - 1 + 21.0$
2	$5 - 2 + 21.0$
3	$5 - 3 + 21.0$
4	$5 - 4 + 21.0$
t	$5 - t + 21.0$

(ii) -4; Teacher pay will be about -\$4 thousand in 2010.

- 458) The population of City A was about 207 thousand in 1992 and has decreased by about 9 thousand per year since then.

458) _____

- (i) Complete the table below to help find an expression that stands for the population of City A (in thousands) at t years since 1992. Show the arithmetic to help you see a pattern.
(ii) Evaluate the expression that you found in part (i) for t = 37. What does your result mean in this situation?

Population of City A	
Years	Population
Since 1992	(thousands)
0	
1	
2	
3	
4	
t	

A) (i)

Population of City A	
Years	Population
Since 1992	(thousands)
0	$9 \bullet 0 + 207$
1	$9 \bullet 1 + 207$
2	$9 \bullet 2 + 207$
3	$9 \bullet 3 + 207$
4	$9 \bullet 4 + 207$
t	$9t + 207$

(ii) 540; The population of City A will be about 540 thousand in 2029.

B) (i)

Population of City A	
Years Since 1992	Population (thousands)
0	$-9 \bullet 0 + 207$
1	$-9 \bullet 1 + 207$
2	$-9 \bullet 2 + 207$
3	$-9 \bullet 2 + 207$
4	$-9 \bullet 2 + 207$
t	$-9t + 207$

(ii) - 126; The population of City A will be about - 126 thousand in 2029.

C) (i)

Population of City A	
Years Since 1992	Population (thousands)
0	$9 - 0 + 207$
1	$9 - 1 + 207$
2	$9 - 2 + 207$
3	$9 - 2 + 207$
4	$9 - 2 + 207$
t	$9 - t + 207$

(ii) 161; The population of City A will be about 161 thousand in 2029.

D) (i)

Population of City A	
Years Since 1992	Population (thousands)
0	-9 + 0 + 207
1	-9 + 1 + 207
2	-9 + 2 + 207
3	-9 + 2 + 207
4	-9 + 2 + 207
t	-9 + t + 207

(ii) 235; The population of City A will be about 235 thousand in 2029.

- 459) If a cube has sides of length s yards, then the volume of the cube is s^3 cubic yards. Find the volume of a cubic box with sides of length 17 yards. 459) _____

A) 51 cubic yards B) 578 cubic yards
C) 4913 cubic yards D) 289 cubic yards

460) If the radius of a sphere is r feet, then the volume of the sphere is $\frac{4}{3}\pi r^3$ cubic feet. Find the volume of a sphere with radius of 10 feet. Round your answer to two decimal places. 460) _____

A) 424.40 cubic feet B) 2094.40 cubicfeet
C) 12,566.40 cubic feet D) 4188.80 cubic feet

461) The normal gasoline mileage of a car is 49 mpg. On a smooth road, its mileage is 12% higher. What is its mileage on a smooth road? Round your answer to the nearest tenth. 461) _____

A) 5.9 mpg B) 50 mpg C) 49 mpg D) 54.9 mpg

- 462) The regular price of a bathing suit is \$21. The price is decreased 35% for a sale in July. What is the sale price of the suit? 462) _____
- A) \$12.65 B) \$14.65 C) \$13.65 D) \$7.35
- 463) A computer printer costs \$590. The price is increased by $2\frac{1}{2}\%$ for sales tax. What is the total price 463) _____
of the printer with tax?
A) \$610.65 B) \$598.85 C) \$737.50 D) \$604.75
- 464) Brand X copier has improved its copier so that it produces 24% more copies than its old model. If the old model ran 501 copies per hour, how many copies would the new model run? Round your answer to the nearest whole number. 464) _____
- A) 285 copies per hour B) 606 copies per hour
C) 516 copies per hour D) 621 copies per hour

Answer Key

Testname: UNTITLED2

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

Answer Key

Testname: UNTITLED2

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

Answer Key

Testname: UNTITLED2

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

Answer Key

Testname: UNTITLED2

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

Answer Key

Testname: UNTITLED2

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

Answer Key

Testname: UNTITLED2

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

Answer Key

Testname: UNTITLED2

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

Answer Key

Testname: UNTITLED2

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

Answer Key

Testname: UNTITLED2

- 401) A
- 402) C
- 403) A
- 404) C
- 405) B
- 406) C
- 407) D
- 408) B
- 409) B
- 410) B
- 411) D
- 412) D
- 413) B
- 414) B
- 415) B
- 416) C
- 417) B
- 418) C
- 419) C
- 420) D
- 421) A
- 422) D
- 423) B
- 424) D
- 425) A
- 426) A
- 427) B
- 428) B
- 429) B
- 430) B
- 431) B
- 432) B
- 433) A
- 434) A
- 435) D
- 436) B
- 437) C
- 438) C
- 439) A
- 440) A
- 441) D
- 442) A
- 443) A
- 444) B
- 445) B
- 446) A
- 447) D
- 448) B
- 449) A
- 450) B

Answer Key

Testname: UNTITLED2

- 451) A
- 452) D
- 453) B
- 454) C
- 455) A
- 456) B
- 457) B
- 458) B
- 459) C
- 460) D
- 461) D
- 462) C
- 463) D
- 464) D