

Please do not use any calculator in doing your homework.

You need Scantron 882E. Please use a pencil to mark the answers. Make sure your Scantron is clean, flat, and not folded when you submit.

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

Write the number in words.

- 1) 88,059 _____
 A) eighty-eight thousand, five hundred nine
 B) eighty-eight hundred, fifty-nine
 C) eighty-eight thousand, fifty-nine
 D) eighty-eight hundred thousand, fifty-nine

Write the number using digits.

- 2) six hundred thirty-eight thousand, nine hundred ninety-seven _____
 A) 638,000 B) 638,997 C) 638,997,000 D) 638,977

Write the number as indicated.

- 3) The Johnsons have driven their car forty two thousand, eight hundred four miles in the last few years. Write the number using digits. _____
 A) 4284 B) 42,840 C) 420,804 D) 42,804

Subtract.

- 4) _____

$$\begin{array}{r} 63,256 \\ - 46,564 \\ \hline \end{array}$$

 A) 16,684 B) 16,692 C) 16,584 D) 22,692

Solve the problem.

- 5) A machine can produce 23 computer chips per day. How many computer chips can be produced in 20 days? _____
 A) 43 chips B) 460 chips C) 48 chips D) 465 chips

Use addition, subtraction, or multiplication to solve the problem.

- 6) The list price of a car is \$19,129. The manufacturer offers a rebate of \$554. What is the final price of the car? _____
 A) \$19,583 B) \$18,475 C) \$18,575 D) \$19,683

Divide by using long division.

- 7) $95 \overline{)81,689}$ _____
 A) 859 B) 84 C) 859 R84 D) 859 R59

Solve the problem by using addition, subtraction, multiplication, or division as needed.

- 8) A school bookstore ordered 218 copies of an English textbook. If the total cost was \$4360, find the cost of each book. _____
 A) \$20 B) \$4142 C) \$15 D) \$18

Round the number as indicated.

- 9) 61,608 to the nearest ten _____
 A) 61,710 B) 61,620 C) 61,610 D) 61,600

10) 96,001 to the nearest thousand

A) 97,000

B) 96,010

C) 96,100

D) 96,000

10) _____

Estimate the answer by rounding as indicated.

11) Estimate by rounding to the nearest ten.

$$\begin{array}{r} 96 \\ - 82 \\ \hline \end{array}$$

A) 20

B) 180

C) 10

D) 14

11) _____

12) Estimate by rounding to the nearest ten.

$$\begin{array}{r} 66 \\ \times 33 \\ \hline \end{array}$$

A) 100

B) 2100

C) 2178

D) 2180

12) _____

Evaluate the exponential expression.

13) 272^0

A) 272

B) undefined

C) 1

D) 0

13) _____

14) 1^{19}

A) 1

B) 0

C) 19

D) undefined

14) _____

Divide using the division properties.

15) $0 \div 73$

A) undefined

B) 0

C) 73

D) 1

15) _____

16) $26 \div 0$

A) 26

B) undefined

C) 0

D) 1

16) _____

17) $\frac{15}{0}$

A) 1

B) 0

C) 15

D) undefined

17) _____

18) $\frac{0}{11}$

A) 0

B) 1

C) 11

D) undefined

18) _____

Identify the exponent and the base, and then simplify the expression.

19) 15^2

A) exponent: 30, base: 2, simplified: 15

B) exponent: 2, base: 30, simplified: 225

C) exponent: 2, base: 15, simplified: 225

D) exponent: 15, base: 2, simplified: 30

19) _____

Simplify the expression by using the order of operations.

20) $6 \cdot 3 + 2 \cdot 9 + 5$

A) 205

B) 41

C) 420

D) 329

20) _____

21) $4 + 3 \div 1 + 6 + \frac{0}{6}$

21) _____

A) 8

B) 12

C) 9

D) 13

Simplify.

22) $48 \div 0 + 6$

22) _____

A) 8

B) Undefined

C) 54

D) 6

23) $7^2 - 4 \cdot 4$

23) _____

A) 84

B) 180

C) 36

D) 33

24) $12 + 16 \div 4 \cdot 2 - 6$

24) _____

A) 14

B) 26

C) 8

D) 34

Simplify the expression.

25) $(15 - 14)^2 + (1 + 4)^2$

25) _____

A) 18

B) 26

C) 46

D) 36

Solve the problem.

- 26) A window washing company quotes your business a price of \$1.5 per square foot to wash all your windows. If you have 10 square windows all measuring 7 feet on a side, how much will this service cost?

26) _____

A) \$21

B) \$514.5

C) \$735

D) \$157.5

- 27) The ceiling in your classroom is made up of 315 square tiles all measuring 15 inches on a side. What is the total area of the ceiling?

27) _____

A) 70,875 square inches

B) 1,488,375 square inches

C) 4725 square inches

D) 9450 square inches

- 28) While shopping for CDs, you note that the average price is about \$9 per CD including tax. You have \$142 in your pocket. About how many CDs can you buy?

28) _____

A) 12

B) 15

C) 19

D) 17

- 29) One cook can make enough food for 350 people a night. How many cooks are needed to feed 3150 people a night?

29) _____

A) 10 cooks

B) 9 cooks

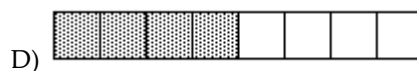
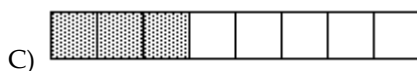
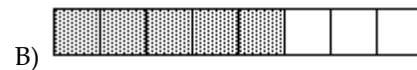
C) 7 cooks

D) 8 cooks

Draw a sketch to illustrate the fraction.

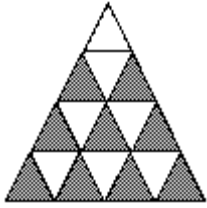
30) $\frac{5}{8}$ of an object

30) _____



Write a fraction to represent the shaded part of the object.

31)



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

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

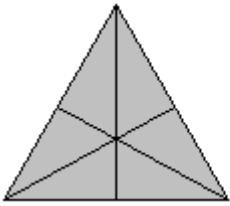
C) $\frac{9}{16}$

D) $\frac{7}{16}$

31) _____

Write the shaded area in the figure as a mixed number.

32)



A) $\frac{11}{6}$

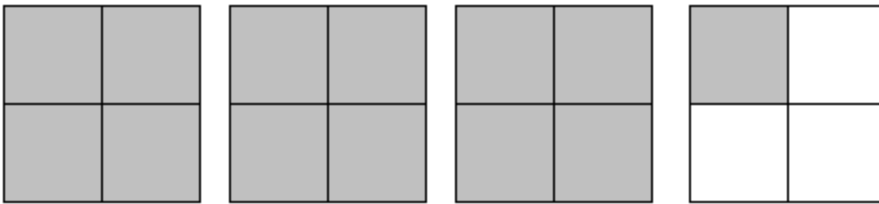
B) $\frac{11}{7}$

C) $\frac{11}{9}$

D) $\frac{11}{12}$

32) _____

33)



A) $\frac{13}{10}$

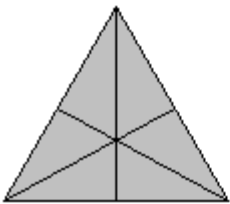
B) $\frac{13}{2}$

C) $\frac{13}{8}$

D) $\frac{13}{4}$

33) _____

34)



A) $\frac{7}{8}$

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

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

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

34) _____

Order the fractions from smallest to largest.

35) $\frac{1}{8}, \frac{1}{5}, \frac{1}{7}$

A) $\frac{1}{5}, \frac{1}{7}, \frac{1}{8}$

B) $\frac{1}{7}, \frac{1}{5}, \frac{1}{8}$

C) $\frac{1}{5}, \frac{1}{8}, \frac{1}{7}$

D) $\frac{1}{8}, \frac{1}{7}, \frac{1}{5}$

35) _____

Write the fraction.

- 36) Of the 58 teachers at a school, 40 are men. What fraction of the teachers are men? 36) _____
A) $\frac{40}{18}$ B) $\frac{58}{40}$ C) $\frac{18}{40}$ D) $\frac{40}{58}$
- 37) Of the 77 doctors at a hospital, 35 are men. What fraction of the doctors are NOT men? 37) _____
A) $\frac{35}{42}$ B) $\frac{77}{42}$ C) $\frac{42}{77}$ D) $\frac{42}{35}$
- 38) At Smith's Apple Orchard one day, 50 people were picking apples, 23 people were picking pumpkins, and 27 people were picking raspberries. What fractional part of the people were picking either apples or pumpkins? 38) _____
A) $\frac{23}{100}$ B) $\frac{50}{100}$ C) $\frac{73}{100}$ D) $\frac{73}{27}$

Multiply and simplify the result. Remember to divide out common factors before performing any multiplication.

- 39) $\frac{5}{2} \cdot \frac{15}{18}$ 39) _____
A) $\frac{25}{12}$ B) 3 C) $\frac{23}{17}$ D) 1
- 40) $45 \cdot \frac{4}{5}$ 40) _____
A) 32 B) $\frac{2029}{200}$ C) 36 D) $\frac{180}{5}$

Multiply. Write the answer in simplest form.

- 41) $2\frac{4}{9} \times 18$ 41) _____
A) $20\frac{4}{9}$ B) 324 C) 36 D) 44
- 42) $5 \times 5\frac{7}{15}$ 42) _____
A) $27\frac{3}{3}$ B) $10\frac{1}{3}$ C) $25\frac{7}{15}$ D) $27\frac{1}{3}$
- 43) $3\frac{1}{9} \times 5 \times \frac{2}{7}$ 43) _____
A) $15\frac{7}{18}$ B) $4\frac{4}{9}$ C) $15\frac{4}{9}$ D) $8\frac{4}{9}$

Divide, if possible. Write the answer in simplest form.

44) $5\frac{5}{9} \div 3\frac{2}{9}$

44) _____

A) $1\frac{22}{29}$

B) $2\frac{21}{29}$

C) $1\frac{21}{28}$

D) $1\frac{21}{29}$

45) $4\frac{1}{7} \div 2\frac{3}{5}$

45) _____

A) $1\frac{54}{91}$

B) $2\frac{54}{91}$

C) $1\frac{54}{90}$

D) $1\frac{55}{91}$

46) $22 \div 3\frac{2}{3}$

46) _____

A) $4\frac{1}{2}$

B) 6

C) 7

D) 5

47) $3\frac{3}{8} \div 9$

47) _____

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

B) $\frac{4}{8}$

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

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

Add or subtract. Express the answer as a mixed number.

48) $11\frac{3}{4} + 11\frac{1}{8}$

48) _____

A) $23\frac{7}{8}$

B) $22\frac{7}{8}$

C) $11\frac{7}{8}$

D) $21\frac{7}{8}$

49) $6\frac{5}{7} + 4\frac{2}{7}$

49) _____

A) $11\frac{4}{7}$

B) 11

C) 10

D) $2\frac{4}{7}$

50) $1\frac{7}{9} + 2\frac{1}{9} + 10\frac{7}{9}$

50) _____

A) 14

B) $15\frac{2}{3}$

C) $14\frac{2}{3}$

D) $13\frac{2}{3}$

51) $18\frac{1}{2} + 2\frac{2}{9}$

51) _____

A) $18\frac{13}{18}$

B) $19\frac{13}{18}$

C) $21\frac{13}{18}$

D) $20\frac{13}{18}$

52) $8\frac{1}{6} + 3\frac{2}{3}$

52) _____

A) $10\frac{5}{6}$

B) $8\frac{5}{6}$

C) $12\frac{5}{6}$

D) $11\frac{5}{6}$

53) $14\frac{1}{9} - 7\frac{2}{9}$

53) _____

A) $6\frac{7}{9}$

B) $6\frac{8}{9}$

C) $20\frac{8}{9}$

D) $21\frac{8}{9}$

54) $11 - 3\frac{1}{9}$

54) _____

A) $7\frac{8}{9}$

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

C) $8\frac{1}{9}$

D) $10\frac{8}{9}$

55) $20\frac{3}{4} - \frac{11}{12}$

55) _____

A) $19\frac{5}{6}$

B) 19

C) $18\frac{5}{6}$

D) $20\frac{5}{6}$

56) $38\frac{2}{3} - 25\frac{13}{16}$

56) _____

A) 12

B) $11\frac{41}{48}$

C) $13\frac{41}{48}$

D) $12\frac{41}{48}$

57) $15\frac{5}{16} - 6\frac{3}{8}$

57) _____

A) $9\frac{13}{16}$

B) 8

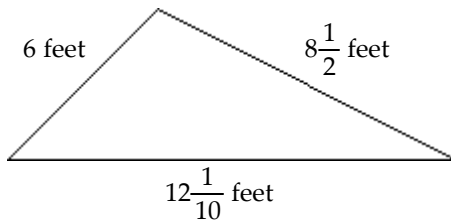
C) $8\frac{15}{16}$

D) $7\frac{15}{16}$

Solve the problem.

58) Find the perimeter of the triangle.

58) _____



A) $43\frac{5}{12}$ feet

B) $26\frac{1}{6}$ feet

C) $26\frac{1}{10}$ feet

D) $26\frac{3}{5}$ feet

59) Robert and Paul each took some chips from a bag of potato chips which contains $16\frac{1}{2}$ ounces of

59) _____

chips. Robert took $1\frac{1}{3}$ ounces of chips and Paul took $2\frac{5}{6}$ ounces of chips. How many ounces of chips were left in the bag?

A) $13\frac{2}{3}$ ounces

B) $14\frac{2}{3}$ ounces

C) $13\frac{1}{3}$ ounces

D) $12\frac{1}{3}$ ounces

Write the decimal number in expanded form.

60) 2.61

60) _____

A) $2 + \frac{6}{10} + \frac{1}{100}$

B) $\frac{2}{10} + \frac{6}{100} + \frac{1}{1000}$

C) $2 + \frac{6}{100} + \frac{1}{1000}$

D) $26 + \frac{1}{100}$

Write the decimal in words.

61) 6.000834

61) _____

- A) six and eight hundred thirty-four hundredths
B) six and eight hundred thirty-four thousandths
C) six and eight hundred thirty-four millionths
D) six and eight hundred thirty-four tenths

62) 0.093

62) _____

- A) ninety-three ten thousandths
B) ninety-three thousandths
C) ninety-three hundredths
D) ninety-three hundred thousandths

63) 0.99

63) _____

- A) ninety-nine ten thousandths
B) ninety-nine hundredths
C) ninety-nine thousandths
D) ninety-nine tenths

Write the words for the dollar amount as you would on a check.

64) \$2,000.52

64) _____

- A) Two thousand dollars $\frac{52}{100}$ cents
B) Two thousand and $\frac{52}{100}$ dollars
C) Two thousand dollars and $\frac{52}{100}$
D) Two thousand $\frac{52}{100}$ dollars

Round the decimal to the given place value.

65) 15.3654 (thousandths)

65) _____

- A) 15.365
B) 15.355
C) 15.375

66) 53.123446 (ten thousandths)

66) _____

- A) 53.12345
B) 53.123446
C) 53.1234
D) 53.1235

Solve the problem.

67) In a town in California, the average consumption of soft drinks per day per elementary school student is 14.135 ounces. Round this value off to the nearest tenth.

67) _____

- A) 14 ounces
B) 14.13 ounces
C) 14.1 ounces
D) 14.2 ounces

68) According to his ultra-precise scale, Paul gained 3.609 pounds in a three-month period. Round this amount off to the nearest hundredth.

68) _____

- A) 3.6 pounds
B) 3.62 pounds
C) 3.61 pounds
D) 0.61 pounds

69) In a laboratory course in veterinary biology, fleas gathered from Muttsky, a volunteered pet dog, averaged 0.162499 inch in length. Round this amount off to the nearest thousandth.

69) _____

- A) 0.162 inch
B) 0.163 inch
C) 0.1625 inch
D) 0.161 inch

Add.

$$\begin{array}{r}
 70) \quad 7.227 \\
 14.935 \\
 + 238.840 \\
 \hline
 \end{array}$$

70) _____

A) 261.002

B) 260.992

C) 260.892

D) 260.902

71) $64.04 + 90.48 + 17.847$

71) _____

A) 172.367

B) 172.467

C) 172.377

D) 173.367

Subtract.

72) $7.648 - 4.019$

72) _____

A) 11.667

B) 3.629

C) 3.729

D) 10.667

73) $18.7 - 18.03$

73) _____

A) 37.73

B) 0.67

C) 36.73

D) 0.77

74) $3.749 - 2.661$

74) _____

A) 1.088

B) 6.410

C) 0.988

D) 1.188

75) $9 - 2.299$

75) _____

A) 6.901

B) 6.701

C) 6.702

D) 6.671

Solve the problem.

76) One week in March in the town of Greenleaf, it rained 2.38 inches on Tuesday, 1.07 inches on Thursday, and 1.84 inches on Friday. It didn't rain the other four days. What was the total rainfall for the week?

76) _____

A) 5.19 inches

B) 5.09 inches

C) 5.27 inches

D) 5.29 inches

77) Last year, Karl's average electricity bill was \$96.19. Last month, his electricity bill was \$135.21. How much above last year's average was last month's bill?

77) _____

A) \$39.02

B) \$39.12

C) \$40.02

D) \$29.02

Multiply.

78) 0.086×0.6

78) _____

A) 0.0516

B) 0.00516

C) 0.516

D) 0.00052

79) 0.0015×0.67

79) _____

A) 0.001005

B) 0.01005

C) 0.00001005

D) 0.0001005

80) 0.0606×5.05

80) _____

A) 0.3333

B) 0.3433

C) 0.30603

D) 0.31603

81) 0.0505

81) _____

$$\begin{array}{r}
 \times 2.02 \\
 \hline
 \end{array}$$

A) 0.11201

B) 0.10201

C) 0.1111

D) 0.1211

Solve the problem.

82) Gary earns \$12.10 per hour at his job. He worked 18 hours last week. Calculate Gary's pay before taxes. 82) _____

- A) \$217.08 B) \$217.76 C) \$217.80 D) \$217.32

83) A farmer sells 5000 bushels of peanuts for \$3.25 a bushel. How much did the farmer receive? 83) _____

- A) \$16,750.00 B) \$1625.00 C) \$16,250.00 D) \$1675.00

Multiply.

84) 11.257×100 84) _____

- A) 111.257 B) 1125.7 C) 11,257 D) 11.25700

85) 18.28×1000 85) _____

- A) 182.8 B) 18.28000 C) 18,280 D) 1828

86) 0.2757×100 86) _____

- A) 0.275700 B) 275.7 C) 2.757 D) 27.57

Estimate the product.

87) 28.4×2.7 87) _____

- A) 77 B) 9 C) 90 D) 80

88) 57.68×12.12 88) _____

- A) 60 B) 600 C) 700 D) 610

89) 8.32×5.01 89) _____

- A) 4 B) 42 C) 400 D) 40

Divide.

90) $12.58 \div 3.7$ 90) _____

- A) 4.4 B) 34 C) 3.4 D) 0.34

91) $6.5 \overline{)3825.62}$ Round to the nearest tenth. 91) _____

- A) 58.8 B) 588.6 C) 58.9 D) 588.5

Solve the problem.

92) A packing carton used by a manufacturer of toys can hold a maximum of 33 pounds. Assuming that space is not a problem, what is the maximum number of train sets that can be packed in a single carton if each train set weighs 2.67 pounds? 92) _____

- A) 11 train sets B) 88 train sets C) 13 train sets D) 12 train sets

93) In one week, Mahesh worked 34.5 hours washing windows and earned \$257.50, including tips. How much did Mahesh earn per hour? Round to the nearest cent if necessary. 93) _____

- A) \$7.56 B) \$7.48 C) \$7.44 D) \$7.46

Write the decimal as a fraction or mixed number in lowest terms.

94) 0.732 94) _____

- A) $\frac{183}{250}$ B) $\frac{183}{25}$ C) $\frac{1}{535,824}$ D) $\frac{1}{732}$

95) 0.584

A) $\frac{1}{341,056}$

B) $\frac{73}{12}$

C) $\frac{73}{125}$

D) $\frac{1}{584}$

95) _____

96) 16.46

A) 1646

B) $16\frac{23}{50}$

C) $164\frac{3}{5}$

D) $1\frac{323}{500}$

96) _____

Write the fraction as a decimal.

97) $\frac{816}{1000}$

A) 0.0816

B) 0.816

C) 0.00816

D) 0.000816

97) _____

98) $\frac{6977}{10000}$

A) 0.6977

B) 0.06977

C) 0.006977

D) 6.977

98) _____

99) $75\frac{1}{10}$

A) 75.01

B) 75.001

C) 75.0001

D) 75.1

99) _____

100) $79\frac{79}{100}$

A) 79.0079

B) 79.00079

C) 79.079

D) 79.79

100) _____