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Summer Packet for Students entering Math 76 and Math 87

**Show all work. No credit will be given unless work is shown.
All of the problems in your summer packet must include the work
and must be completed without the use of a calculator.**

Whole Numbers: Perform the indicated operation.

1. $8017 + 3264 + 987$

2. $7942 - 3827$

3. $7006 - 3259$

4. 37×42

5. 705×98

6. 347×807

7. $3536 \div 17$

8. $13386 \div 46$

9. $7343 \div 7$

10. $46 \overline{)4002}$

11. $6 \overline{)54}$

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12. 795

13. 32

14. 8112

15. 7,001,345,082

Use digits to write each number named in the following problems.**Example: seventy-three thousand, twenty-four Answer: 73,024**

16. forty-two thousand, six.

17. three hundred thirty-two

18. five million, twenty-four thousand, six hundred fifteen

19. nine hundred eighty thousand

Round the following numbers to the nearest ten.

20. 46

21. 84

22. 96

23. 121

24. 477

Round the following numbers to the nearest hundred.

25. 375

26. 460

27. 198

28. 532

29. 638

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Round the following numbers to the nearest 1000.

- 30. 1760
- 31. 3675
- 32. 36,102
- 33. 57,843

List all the factors of the following numbers.

Example: 12 – The factors are 1,2,3,4,6,12.

- 34. 18
- 35. 24
- 36. 30
- 37. 48

Find the Greatest Common Factor of each group of numbers.

Example: 6, 9, 12 **Factors of 6: 1,2,3,6**
 Factors of 9: 1,3,9
 Factors of 12: 1,2,3,4,6,12
 GCF is 3

- 38. 2,4,6
- 39. 4, 8 12
- 40. 12, 16, 20

Find the Least Common Multiple of each group of numbers.

Example: 10, 12 **Multiples of 10: 10,20,30,40,50,60,70**
 Multiples of 12: 12,24,36,48,60,72
 LCM is 60

- 41. 2, 4,6
- 42. 8, 12
- 43. 2, 5, 10

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Perform the indicated operations of the following decimal problems.

44. $0.62 + 0.4$

45. $4.75 + 3 + 12.5$

46. $1 - 0.3$

47. $1.2 - 0.15$

48. 0.3×4

49. 1.2×0.8

50. 6.2×0.07

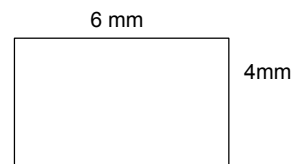
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Calculate the perimeter of the following problems.
Perimeter is the distance around the shape.

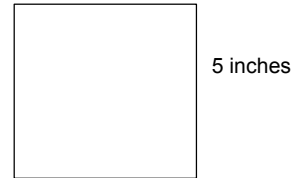
Example: Find the perimeter of a rectangle
whose width is 12 inches and length is 9 inches.

Answer: $12 + 9 + 12 + 9 = 42$ inches.

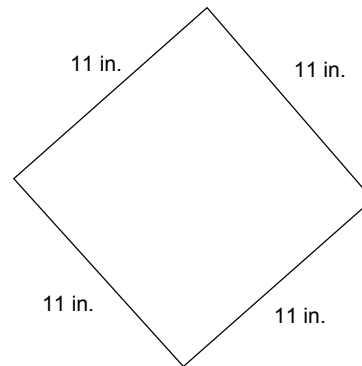
51. What is the perimeter of this rectangle?



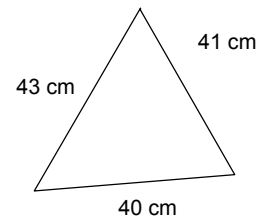
52. What is the perimeter of this square?



53. Cindy is making a pillow that is shaped like a square, as pictured below.
What is the perimeter of her pillow?



54. What is the triangle's perimeter?

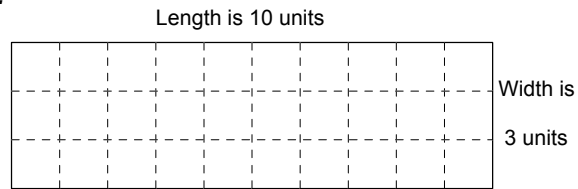


55. The perimeter of a square is 20 centimeters.
What is the length of one of the sides of the square?

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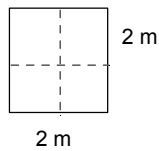
Calculate the area of the following polygons.
Area is the amount of square units used to cover the space of a shape.

EXAMPLE:

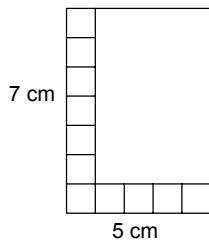


AREA = Length x Width = 10 x 3 = 30 square units

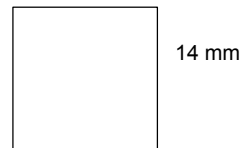
56. Altogether, how many square meters does it take to cover this rectangle?



57. How many square centimeters does it take to cover this rectangle?



58. What is the area of this square?



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Solve the following word problems.

59. John, Mary, Sue, Judy and Tom went to the movies. If it cost \$32.50 for them all to get into the movie, how much was each ticket?
60. Vanessa charges \$5.50 per hour to baby-sit. She cared for the Jones's children for 5 hours on Saturday evening. How much money did she earn?
61. Steve gets \$15.00 for his weekly allowance. He spends \$2.95 for a magazine and \$7.50 at the movies. What does he have left to spend?
62. If you went to the store and spent \$1.25 for a loaf of bread, \$0.67 for a candy bar and \$2.45 for a gallon of milk and paid with a \$20 bill, how much change would you receive?
63. Kelli has two packages that weigh a total of 4.8 kilograms. One package weighs 1.9 kilograms. How much does the other package weigh?
64. Eric and Meagan were asked to find the sum of 4.26; 0.364; 37; and 0.5. Eric said the sum is 41.629 and Meagan said the sum is 42.124. Who is correct?
65. Each machine can produce 125 items a minute. There are 32 machines in all. How many items can be produced each minute by using all the machines?

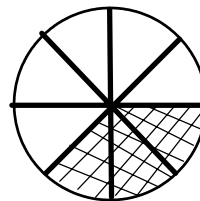
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66. Isabelle had 7 dozen marbles. Then she lost 11 marbles. Now how many marbles does she have?
67. Ann bought 2 tickets for \$5.08 each. What was the total cost to the tickets?
68. What is the sum of 3276, 841, and 7637?
69. If 175 players are separated into 25 equal teams, how many players will there be on each team?
70. 5 dimes are worth \$0.50. A roll of dimes is worth \$5.00. How many dimes is that?
71. Use the numbers 10, 9, and 19 to make two addition facts and two subtraction facts.
72. Use the numbers 4, 11, and 44 to make two multiplication facts and two division facts.

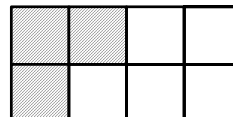
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Fractions: Answer all the problems.

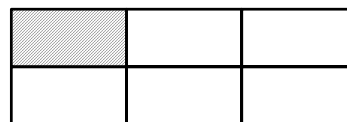
73. What fraction of this circle is shaded?



74. What fraction of this rectangle is shaded?



75. What fraction of the rectangle is NOT shaded?



76. Six days is what fraction of a week?

77. There are 21 girls in a class of 38 students. What fraction of the class is boys?

78. What number is $\frac{1}{2}$ of 584?

79. A team won 7 of its 12 games. What fraction of its games did the team win?

80. $1 - \frac{1}{10}$

81. $\frac{6}{7} + \frac{1}{7}$

82. $\frac{2}{7} - \frac{1}{7}$

83. Multiply: $\frac{3}{5} \times \frac{4}{7}$

84. What is the product of $\frac{2}{7}$ and $\frac{5}{11}$?

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Reduce the following fractions to lowest terms:

85. $\frac{3}{12}$

86. $\frac{5}{10}$

87. $\frac{8}{20}$

88. $\frac{7}{14}$

89. $\frac{18}{24}$

90. $\frac{20}{30}$

91. $\frac{4}{16}$

92. $\frac{15}{25}$

93. $\frac{12}{18}$

94. $\frac{12}{16}$

95. $\frac{9}{24}$

96. $\frac{9}{18}$

97. $\frac{21}{24}$

98. $\frac{4}{20}$

99. $\frac{15}{18}$

100. $\frac{24}{36}$

101. $\frac{3}{15}$

102. $\frac{16}{18}$

103. $\frac{18}{20}$

104. $\frac{6}{18}$

Find the missing numbers:

105.
$$\begin{array}{r} j \\ + 48 \\ \hline 80 \end{array}$$

106. $N + 9 = 43$

107. $y - 6 = 13$

108. $p - 4 = 19$

109. $\frac{N}{3} = 3$

110. $4 + r = 10$

111. $a \div 3 = 9$

112. $6z = 66$

113. $9 \times u = 63$