

5th to 6th Grade Math Matters Summer Packet

Due Date: First Day of School to Mrs. Fagan or Moderator

Dear Math Matters students and parents,

This summer, we encourage you to continue to practice your mathematics at home. Being actively involved in mathematical activities enhances learning.

In preparation for the 2017-2018 school year, students are provided with a summer review packet. This packet focuses on some of the prerequisite concepts and skills necessary for student success in 6th grade Math Matters. The packet may be graded at the teacher's discretion, and may receive extra credit.

While completing the review packet, we recommend that students:

- Complete each problem showing all steps used to arrive at the final answer.
- Show all work neatly in the actual packet, if it is printed. (Additional lined paper may be added if necessary.)
- If packet is not printed, then make sure to number each page and problem as it appears on the packet. All work must be neatly presented.
- Box your final answers.
- Label answers when necessary.
- Do NOT use a calculator.
- Do not rush! Use time wisely.
- If you are stuck on a particular problem, check out one of the math websites posted below. Parents may also be able to help. If you are still having difficulty, circle the problem number and be prepared to ask questions in class in September.

Helpful APPS:

<http://www.khanacademy.org>

<http://www.aplusmath.com>

<http://funbrain.com>

<http://aaamath.com>

<http://math.com>

Have a fun and productive summer.

Regards,

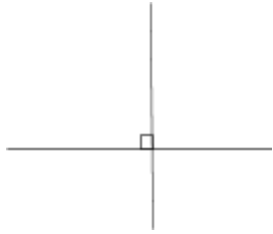
Mrs. Fagan
Math Matters Teacher

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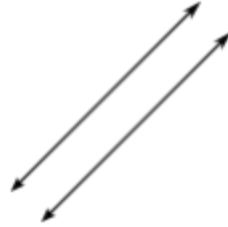
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Identify each figure. Then name it using symbols.

1)



2)



Draw and label each.

3) two intersecting lines

4) line UV // line WX

5) Line segment AC intersecting ray DE at point M

6) 3 lines intersecting at point B

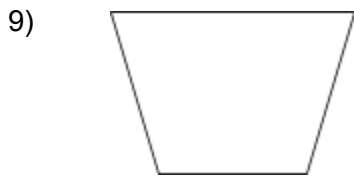
7) line segment MX and line segment CR do not intersect

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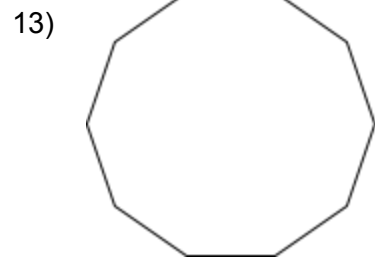
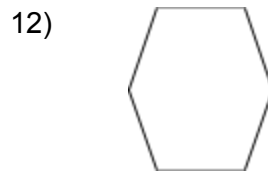
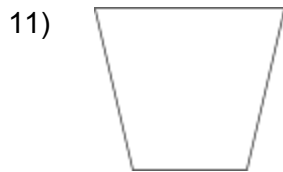
8) Line NP and line QL are not parallel

Decide if each figure is a polygon. Write Yes or No.



10)

Name each polygon.



Write the place of the underlined digit. Then write its value.

14) 943,862

15) 3,648,666

16) 1,999,99,999

Write in order from least to greatest.

17) 9,234,458; 9,234,124; 9,234,148; 9234 _____

18) 216,418; 215,783; 213,614; 221,986 _____

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Round to the nearest ten.

19) 469 _____ 20) 875 _____ 21) 2587 _____

22) 4351 _____ 23) 9289 _____ 24) 3542 _____

Round to the nearest hundred.

25) 37,405 _____ 26) 62,345 _____ 27) 66,636 _____

28) 88,088 _____ 29) 65,097 _____ 30) 58,706 _____

Round to the nearest thousand.

31) 821,593 _____ 32) 450,513 _____ 33) 435,127 _____

34) 205,120 _____ 35) 761,604 _____ 36) 807,476 _____

List all the factors of each number.

37) 22 _____ 38) 108 _____

List the first ten nonzero multiples of each number.

39) 6 _____ 40) 12 _____

Write the decimals in word form.

41) 0.02 _____

42) 300.09 _____

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Write the place and value of the underlined digit.

43) 0.45 _____ 44) 9.63 _____

Add or subtract. Show all work.

45) $17,243 + 13,963$ 46) $1768 + 63$ 47) $567,892 + 132,104$

48) $0.56 + 0.41$ 49) $0.8 + 0.47$ 50) $\$9.78 + \$43.85 + \$5$

51) $456,781 - 179,660$ 52) $587,893 - 498,721$ 53) $081 - 0.6$

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54) $\$0.95 - \0.59

55) $\$14.97 - \10.49

56) $0.8 - 0.29$

Find the missing number using inverse operations.

57) $8 + a = 12$ _____ 58) $23 \times c = \$115.00$ _____ 59) $y \div 3 = 233$ _____

Find the product.

60) 613×9

61) $7 \times \$8.64$

62) 329×43

63) $92 \times \$7.68$

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Find the quotient.

64) $1589 \div 38$ 65) $1634 \div 17$ 66) $4267 \div 59$

67) $\$18.24 \div 19$

Add or subtract the fractions. Write the answer in simplest form.

68) $\frac{3}{5} + \frac{1}{5}$

69) $\frac{1}{2} + \frac{3}{4}$

70) $2\frac{2}{3} + 6\frac{1}{9}$

71) $\frac{5}{7} - \frac{4}{7}$

72) $5\frac{5}{8} - 2\frac{1}{2}$

73) $16\frac{1}{6} - 5\frac{11}{12}$

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Multiply or divide the fractions. Give the answers in simplest form.

74) $\frac{1}{4} \times \frac{4}{5}$

75) $2\frac{1}{3} \times \frac{4}{7}$

76) $5\frac{2}{6} \times 3\frac{6}{8}$

77) $8\frac{1}{3} \div 7\frac{1}{7}$

78) $4\frac{1}{2} \div 8$

79) $6\frac{2}{9} \div 2\frac{3}{7}$

Use mm, cm, dm, m or km to complete the sentence.

80) The length of a pair of scissors is about 20 _____.

81) The width of your hand is about 85 _____.

82) The swimming freestyle distance is 1500 _____.

83) The width of an electric wire is about 1 _____.

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What metric unit of capacity is better to measure each? Write mL or L.

84) milk jug _____ 85) bottle of eyedrops _____ 86) glass of juice _____

What metric unit of mass is better to measure each? Write g or kg.

87) a dozen bananas _____ 88) personal computer _____

Multiply or divide to rename each unit.

89) 9 L = ____ mL 90) 50 kg = ____ g 91) 72 L = ____ mL

Write the letter of the most reasonable estimate.

_____ 92) length of a pen a. 6 ft b. 6 in. c. 6 yd

_____ 93) height of a table a. 2.5 ft b. 2.5 mi c. 2.5 in.

_____ 94) distance between two cities a. 225 mi b. 225 yd c. 225 ft

Multiply or divide to rename each unit.

95) 8 ft = ____ in 96) 126 in = _____ yd 97) 2 ½ mi = ____ yd

Write the letter of the most reasonable estimate.

98) capacity of a can of soup. 2 pt b. 2 c c. 2 gal

99) weight of a tennis ball b. 2 lb b. 2 T c. 2 oz

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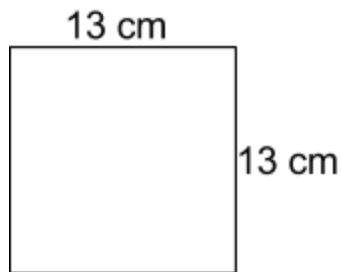
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Multiply or divide to rename each unit.

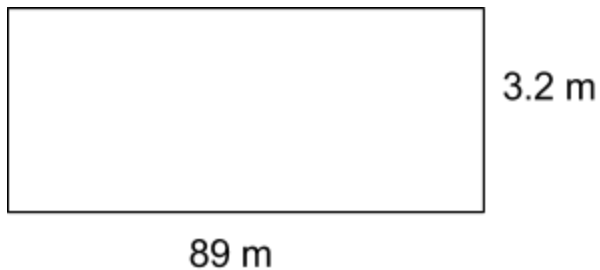
100) $5000 \text{ lb} = \underline{\hspace{1cm}} \text{ qt}$ 101) $22 \text{ gal} = \underline{\hspace{1cm}} \text{ pt}$ 102) $10.5 \text{ c} = \underline{\hspace{1cm}} \text{ fl oz}$

Find the perimeter and area of each figure. Show your work.

103)



104)

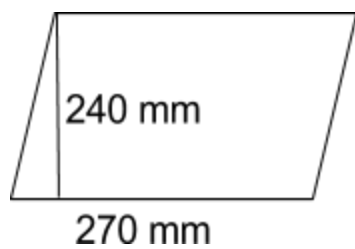


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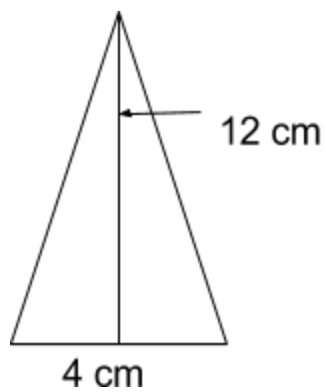
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Find the area. Show all work.

105)



106)

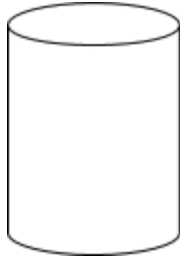


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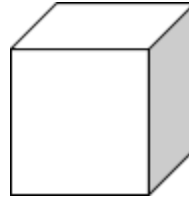
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Name the solid figures.

107)

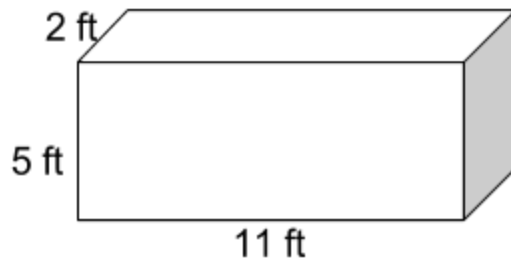


108)



Find the surface area and the volume of the following figure. Show all work.

109)



Evaluate each algebraic expression.

110) $r - 5$, when $r = 6$ _____

111) $a + b - c$, when $a = 4$, $b = 3$, $c = 2$ _____

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Solve the equations showing your work.

112) $e + 3.2 = 7.5$

113) $15x = 225$

114) $\frac{y}{5} = 9$

115) $77 - n = 104$

Complete the operations for the following.

116) $-2 - (-4) = \underline{\hspace{2cm}}$

117) $-18 - 5 = \underline{\hspace{2cm}}$

118) $-23 \times 9 = \underline{\hspace{2cm}}$

119) $-35 \div 7 = \underline{\hspace{2cm}}$

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Plot the points on the graph. Label the points with the letter.

120) $R(1,2)$

121) $S(3, -4)$

122) $T(-4, -2)$

123) $U(-5, -5)$

