

## 6th to 7th Grade Math Matters Summer Packet

**Due Date: September 6th or 7th 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 7th 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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Write the place and the value for each underlined digit.

	Place	Value
1) 12, <u>9</u> 86,543.24		
2) 1,00 <u>8</u> ,091,452.3		
3) 98,765. <u>8</u> 52		
4) 45.0000 <u>9</u>		
5) <u>7</u> 89,123,456.654		

**Round to the nearest hundred.**

6) 5673 \_\_\_\_\_ 7) 15,664 \_\_\_\_\_

8) 9845 \_\_\_\_\_ 9) 899.999 \_\_\_\_\_

**Round to the nearest thousand.**

10) 3,875.508 \_\_\_\_\_ 11) 198,756 \_\_\_\_\_

12) 11,099.099 \_\_\_\_\_ 13) 9898.9898 \_\_\_\_\_

**Round to the nearest thousandth.**

14) 6.16511 \_\_\_\_\_ 15) 2.00987 \_\_\_\_\_

16) 1.7865 \_\_\_\_\_ 17) 4.4563 \_\_\_\_\_

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**Round to the greatest nonzero place.**

18) 0.76198 \_\_\_\_\_ 19) 6.8101 \_\_\_\_\_

20) 7.0897 \_\_\_\_\_ 21) 3.002 \_\_\_\_\_

**Use <, =, or > to compare the decimals.**

22) 3.564 \_\_\_\_ 3.556 23) 0.00714 \_\_\_\_ 0.00741

24) 5.004 \_\_\_\_ 5.014 25) 8.111 \_\_\_\_ 8.101

**Order the numbers from least to greatest.**

26) 4.098; 4.106; 3.996 \_\_\_\_\_

27) 12.12; 12.26; 12.16 \_\_\_\_\_

**Order the numbers from greatest to least.**

28) 4.75; 4.79; 4.97 \_\_\_\_\_

29) 71.107; 70.707; 71.707 \_\_\_\_\_

**Use rounding to estimate the sums or differences. Show the work.**

30)  $12.89 + 4.06 + 8.12$

31)  $2.856 - 0.234$

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**Add or Subtract. Show all your work.**

32)  $5,601,765 + 11,987,003$

33)  $0.0054 + 2.58$

34)  $104.76 + 601.2 + 89$

35)  $78 + 4.6 + 98.21$

36)  $20 - 12.24$

37)  $716.47 - 48.66$

38)  $1.08 - 0.15$

39)  $1.287 - 0.008$

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**Multiply. Show your work.**

40)  $47 \times 118$

41)  $98 \times 6541$

42)  $86 \times 62$

43)  $9.5 \times 6.2$

44)  $49.3 \times 1.5$

45)  $986.32 \times 7.8$

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**Divide. Show all work.**

46)  $7.26 \div 1.2$

47)  $0.081 \div 0.09$

48)  $99.15 \div 0.3$

49)  $6.84 \div 3.8$

50)  $42.84 \div 8.4$

51)  $0.91 \div 0.7$

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**Add, subtract, multiply or divide. Answer should be always in simplest form.**

52)  $\frac{7}{9} + \frac{1}{2}$

53)  $2\frac{5}{7} + 9\frac{1}{4}$

54)  $8\frac{2}{5} + \frac{2}{3}$

55)  $\frac{3}{4} - \frac{5}{7}$

56)  $3\frac{1}{5} - 2\frac{9}{10}$

57)  $18\frac{5}{21} - 8\frac{1}{3}$

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

59)  $2\frac{1}{3} \times \frac{4}{7}$

60)  $5\frac{2}{6} \times 3\frac{6}{8}$

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61)  $8\frac{1}{3} \div 7\frac{1}{7}$

62)  $4\frac{1}{2} \div 8$

63)  $6\frac{2}{9} \div 2\frac{3}{7}$

**Solve the equations showing your work.**

64)  $e + 3.2 = 7.5$

65)  $15x = 225$

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

67)  $77 - n = 104$

**Complete the operations for the following.**

68)  $-2 - (-4) = \underline{\hspace{2cm}}$

69)  $-18 - 5 = \underline{\hspace{2cm}}$

70)  $-23 \times 9 = \underline{\hspace{2cm}}$

71)  $-35 \div 7 = \underline{\hspace{2cm}}$



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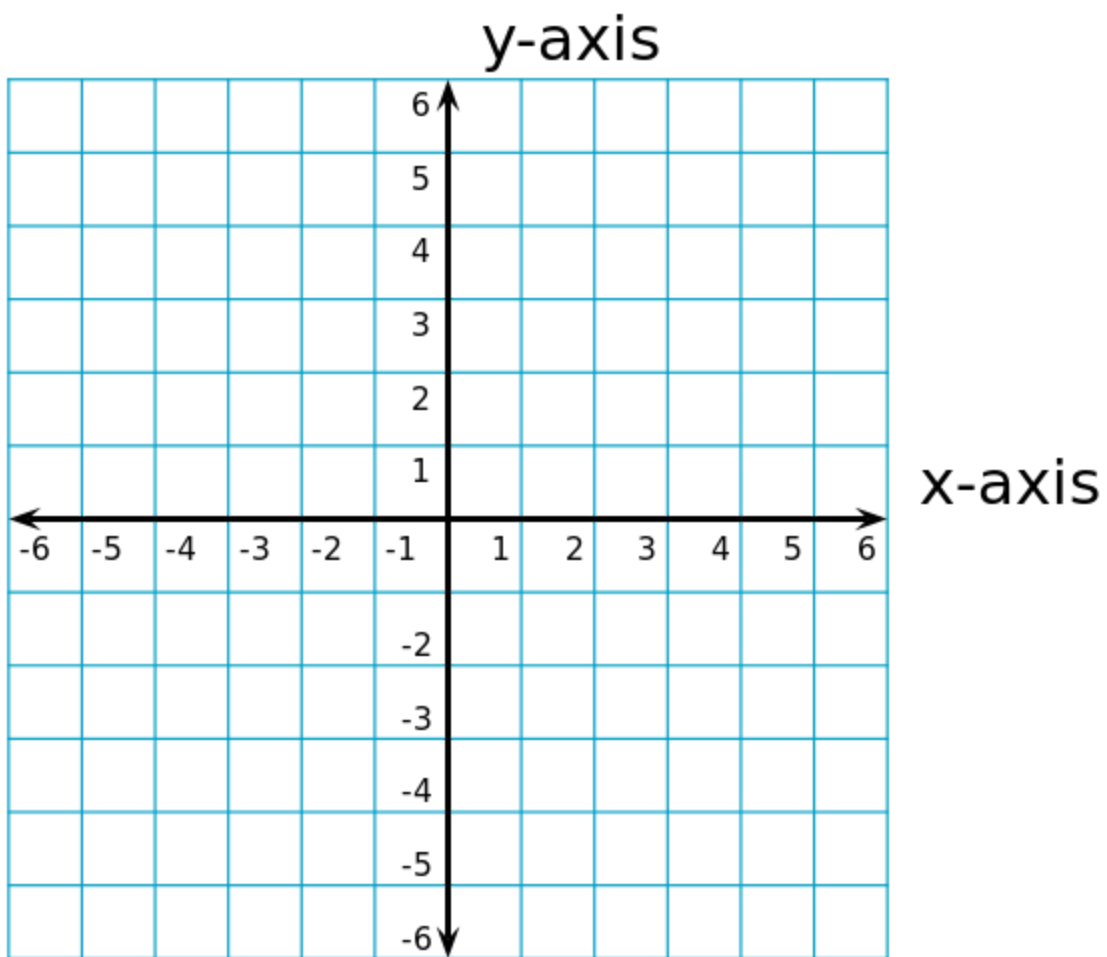
Plot the points on the graph. Label the points with the letter.

72) R(1,2)

73) S(3, -4)

74) T(-4, -2)

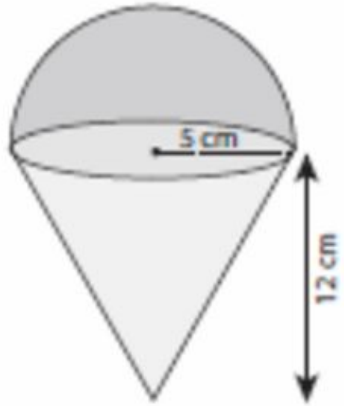
75) U(-5, -5)



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76) Find the area of the combined figure. Show all work. Use 3.14 for pi.



77) Find the volume of the combined figure.

