



## Summer Math Packets Rising 7<sup>th</sup> Grade Students

Dear WCCS Students,

This is the summer math packet if you are entering 7<sup>th</sup> grade next year. There are 100 questions in total which you can spread out over the summer by doing about 12 questions per week. Unless you register within two weeks of the beginning of the school year, you are responsible for these concepts before school starts in fall. The first test grade of the quarter will include 50% completion grade for the summer packet and 50% from a skills assessment given in class on these topics.

*This packet will be collected from each student the first day back and adequate work must be shown for problems as appropriate. Five points will be deducted for each day the assignment is not turned in to the math teacher.*

If you have trouble working the problems, look at online resources, ask a friend or parent for help. If you are still having trouble please email me by July 25<sup>th</sup>. I can meet for help in early August before school starts to go over select problems. Problems should be familiar and cover basic skills that will help you achieve success in 7<sup>th</sup> grade mathematics. Of course, you may need to refresh your memory as you work through the problems. ***Please also practice your math facts throughout the summer.*** I look forward to seeing you in August and I hope you have a wonderful summer!

### Top Online Resources:

<http://www.Mathisfun.com/>

<http://Ixl.com>

<http://www.studentguide.org/a-complete-list-of-online-math-resources/>

Blessings,

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**No Calculators Allowed - SHOW ANY WORK**

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**Round each to the place indicated.**

- 1) 4.09; tenths  
 2) 5.458; hundredths  
 3) 7.078375; ten-thousandths  
 4) 6.217295; thousandths

**Write the name of each decimal place indicated.**

- 5) 9.22422  
 6) 5.604  
 7) 9.083501  
 8) 8.843753

**Round each to the place indicated.**

- 9) 531,734,608; hundred thousands  
 10) 9,152; hundreds  
 11) 976,307,830; hundred millions  
 12) 777,272,386; millions

**Write each numeral in words.**

- 13) 60,583,790  
 14) 76,903,001  
 15) 8,996,000  
 16) 2,800,770

**Write each as a numeral.**

- 17) three hundred thirty million, seven hundred eighty thousand, sixty-three  
 18) sixty million, eighty-nine  
 19) five hundred million, three hundred thousand, seventy  
 20) four hundred fifty million, one hundred three thousand, seventy-five

**Find each sum.**

21)  $6.3 + 3.7 + 5.8$

22)  $5 + 7.4 + 1.9$

**Find each difference.**

23)  $6.1 - 1.4 - 2.9$

24)  $2 - 0.7 - 1.1$

**Evaluate each expression.**

25)  $1.1 + 7.7 + 5.3$

26)  $2.6 + 4.9 + 6.5$

**Find each product.**

27)  $9.8 \cdot 3.52$

28)  $3.9 \cdot 6.56$

29)  $5.5 \cdot 3.3$

30)  $5.7 \cdot 0.7$

**Find each quotient. Round to the nearest tenth.**

31)  $4.7 \div 6.2$

32)  $7.2 \div 0.3$

33)  $3.5 \div 4.4$

34)  $5.3 \div 0.2$

**List all positive factors of each.**

35) 27

36) 18

37) 21

38) 30

**Write the prime factorization of each.**

39) 15

40) 24

41) 27

42) 18

**Find the GCF of each.**

43) 40, 10, 20

44) 27, 45, 36

45) 4, 6, 44

46) 20, 35, 50

**Find the LCM of each.**

47) 21, 14

48) 24, 36

49) 36, 8

50) 27, 18

**Simplify each. Write as a smaller fraction or mixed number.**

51)  $\frac{6}{18}$

52)  $\frac{12}{42}$

53)  $\frac{100}{40}$

54)  $\frac{36}{30}$

**Write each as a decimal. Round to the hundredths place.**

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

56)  $\frac{63}{74}$

57)  $\frac{1}{117}$

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

**Evaluate each expression. Tip: You must have a common denominator to add or subtract fractions.**

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

60)  $7 + \frac{1}{2}$

61)  $1\frac{2}{3} + 2\frac{3}{7}$

62)  $4\frac{6}{7} + \frac{1}{2}$

63)  $3 - \frac{1}{2}$

64)  $\frac{9}{5} - \frac{6}{5}$

65)  $\frac{3}{4} - \frac{2}{5}$

66)  $2\frac{3}{4} - 2\frac{1}{8}$

**Find each product.**

67)  $\frac{7}{4} \cdot \frac{2}{3}$

68)  $4 \cdot \frac{2}{3}$

69)  $4\frac{1}{7} \cdot 4\frac{1}{3}$

70)  $3\frac{1}{2} \cdot 4\frac{9}{10}$

**Answer each question and round your answer to the nearest whole number.**

71) If you can buy one honeydew melon for \$4, then how many can you buy with \$12?

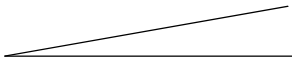
72) One package of strawberries costs \$3. How many packages of strawberries can you buy for \$6?

73) If you can buy one package of fresh chives for \$2, then how many can you buy with \$16?

74) Perry bought one jar of sun-dried tomatoes for \$4. How many jars can Kali buy if she has \$20?

**Find the measure of each angle to the nearest degree.**

75)



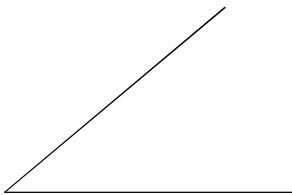
- A)  $80^\circ$       B)  $170^\circ$   
C)  $100^\circ$       D)  $10^\circ$

76)



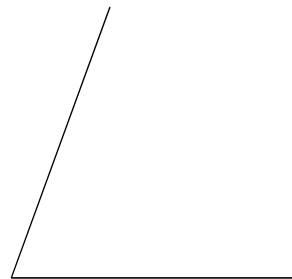
- A)  $110^\circ$       B)  $70^\circ$   
C)  $20^\circ$       D)  $160^\circ$

77)



- A)  $130^\circ$       B)  $40^\circ$   
C)  $140^\circ$       D)  $15^\circ$

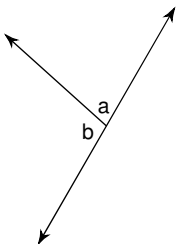
78)



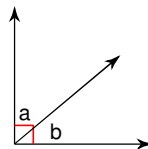
- A)  $100^\circ$       B)  $160^\circ$   
C)  $110^\circ$       D)  $70^\circ$

**Name the relationship: complementary, or supplementary.**

79)

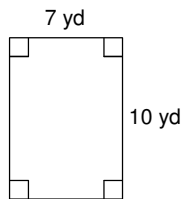


80)

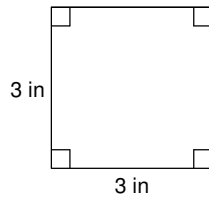


Find the area of each. Include proper units in your answer.

81)

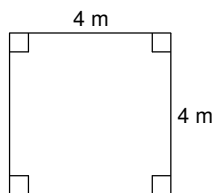


82)

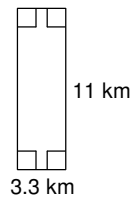


Find the Perimeter of each. Include proper units in your answer

83)

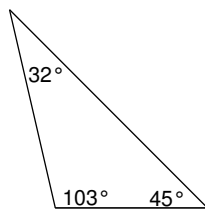


84)

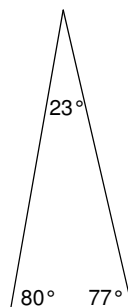


Classify each triangle by its angles. Right, Obtuse, or Acute.

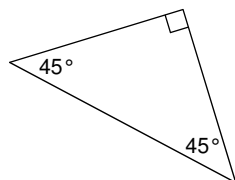
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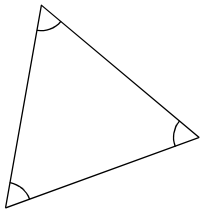


87)

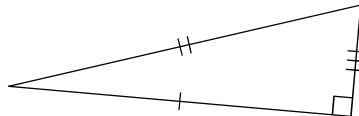


**Classify each triangle by its sides. Isosceles, Scalene, or Equilateral.**

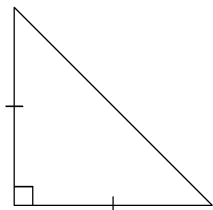
88)



89)



90)



**Evaluate each expression using Order of Operations. Hint: PEMDAS**

91)  $4 \cdot 3 - 6$

92)  $5 \cdot 4 + 3$

93)  $2 \cdot 2 - 1$

94)  $4 + 4 \div 2$

95)  $(6 + 3) \cdot 3$

96)  $12 \div (2 + 2)$

**Convert the Rates.**

97) Convert 60 miles/hour to miles/minute

98) \$10.75 for 5 cheeseburgers means how much for 1 cheeseburger?

99) 200 ft/min = how many ft/sec

100) 5 km/hour equals how many meters/hour



## ***Area Formulas***

*Circle*       $A = \pi r^2$

*Rectangle*       $A = l * W$

*Square*       $A = s * s$

*Triangle*       $A = \frac{1}{2} b h$

*Parallelogram*       $A = b h$

*Trapezoid*       $A = \frac{1}{2} (b_1 + b_2) h$

## ***Pythagorean Theorem***

$$a^2 + b^2 = c^2$$

## ***Volume Formulas***

*Prism/Cylinder*       $V = B h$

*Cone*       $V = \frac{1}{3} B h$

*Pyramid*       $V = \frac{1}{3} B h$

## ***Perimeter and Circumference***

*Rectangle*       $P = 2l + 2w$

*Square*       $P = 4s$

*Circle*       $C = \pi d$  or  $C = 2\pi r$