

7th Grade Math Readiness Summer Math Packet



Name _____

Dear Patriots,

It has been a good year, and you have worked hard to master the ideas we covered in 6th Grade math this year. I encourage you to take a refreshing break as school ends, and enjoy the things that summer brings your way; read good books, play games, and spend time with family and friends. After July 4th, it is a good idea to begin turning your thoughts toward the upcoming school year. I am sending home a summer math packet to help you prepare to start Pre-Algebra strong. It will review math skills you should have mastered, but if you get stumped please go to one of the websites listed at the bottom of this page which includes video tutorials and additional practice problems. Or I am happy to help if you need me, simply send me an email.

Show all work.. Bring this packet with you on the first day of school for a grade.

Have a great summer!

Mrs. Locke

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<https://www.youtube.com/user/mathmammoth>

<https://www.interactive-maths.com/>

<https://www.khanacademy.org/>

<https://www.prodigygame.com/main-en/>

<https://www.prodigygame.com/main-en/blog/math-websites-for-middle-school/>

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?

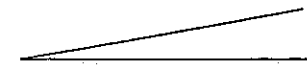
72) One package of strawberries costs \$3. How many packages of strawberries can you buy for \$6?

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?

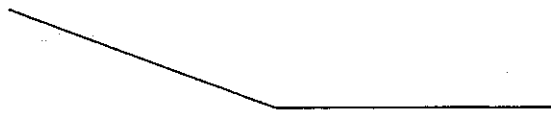
Find the measure of each angle to the nearest degree.

75)



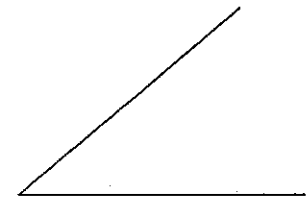
- A) 80° B) 170°
C) 100° D) 10°

76)



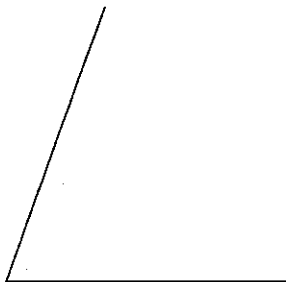
- A) 110° B) 70°
C) 20° D) 160°

77)



- A) 130° B) 40°
C) 140° D) 15°

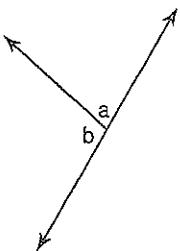
78)



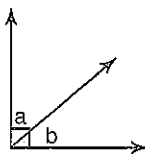
- A) 100° B) 160°
C) 110° D) 70°

Name the relationship: complementary, or supplementary.

79)

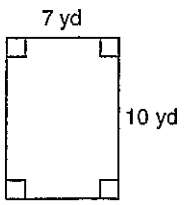


80)

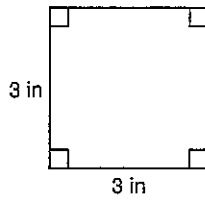


Find the area of each. Include proper units in your answer.

81)

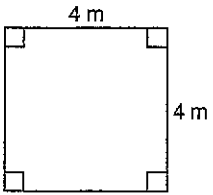


82)

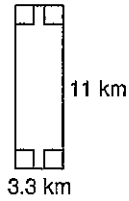


Find the Perimeter of each. Include proper units in your answer

83)

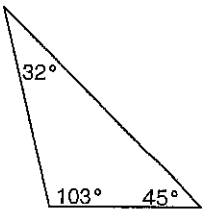


84)

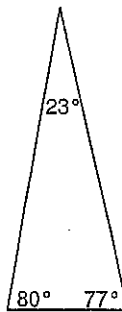


Classify each triangle by its angles. Right, Obtuse, or Acute.

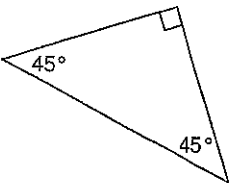
85)



86)

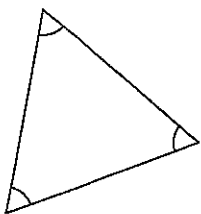


87)

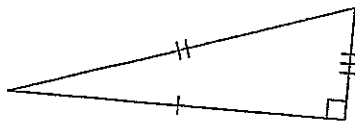


Classify each triangle by its sides. Isosceles, Scalene, or Equilateral.

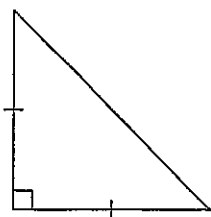
88)



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 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

