

## Leon County Middle Schools – Summer Math Worksheets – 8<sup>th</sup> Grade Pre-Algebra

This summer math worksheet is for students *entering* the 8<sup>th</sup> grade Pre-Algebra class. Work the following problems over the summer. Be sure to show ALL your work neatly on a separate sheet of paper. Your teacher will ask for this in August for a grade. NO Calculators should be used on this worksheet.

Simplify:

1.  $2\frac{5}{7} + 1\frac{4}{7}$

2.  $4\frac{1}{5} - 1\frac{2}{3}$

3.  $2\frac{2}{3} + 3\frac{3}{5}$

4.  $8\frac{3}{4} - 4\frac{5}{6}$

5.  $9 - 5\frac{4}{7}$

6.  $4\frac{1}{3} - 2\frac{3}{8} + 5\frac{5}{6}$

7.  $(-2) + (-8) + (-4)$

8.  $(-6) - 6$

9.  $(-3) - (-7) + 8$

10.  $8.45 + 3.3 + 6$

11.  $92.35 - 6.384$

12.  $145.6 + 84.56 - 37.384$

13.  $\frac{3}{4} \div 3\frac{3}{5}$

14.  $3\frac{1}{9} \div 2\frac{2}{5}$

15.  $4\frac{2}{9} \div 9\frac{1}{2} + 3\frac{1}{2}$

16.  $4\frac{3}{8} \cdot 1\frac{3}{7}$

17.  $3\frac{1}{2} \cdot 2\frac{2}{3} \cdot 2\frac{1}{7}$

18.  $(-2)(5)(-4)$

19.  $-8 - (-5) \cdot (-7)$

20.  $18 - (-45) \div (-5) \cdot (-3)$

21.  $35.86 \cdot 1.5$

22.  $3.9 \div 6.5$

23.  $0.75 \div 2.4$

24.  $3.8 + 0.45 \cdot 6.78$

25.  $(2 - 8) \div (5 - 2)$

26.  $6 - (3 - 2 + 4) \div 4$

27.  $16 \div [(2 + 4) - (-2)]$

Write as a fraction in simplified form:

28. 80%

29. 9.54

30. 2.8

31. 5%

Write as a percent:

32. 0.78

33.  $\frac{3}{8}$

34. 5.4

35.  $2\frac{2}{5}$

Solve each equation:

36.  $-4 = m - 17$

37.  $a + 18 = 7$

38.  $-40 = -8c$

39.  $\frac{w}{18} = 3$

40.  $10 + 8c = 42$

41.  $\frac{v}{2} + 6 = 14$

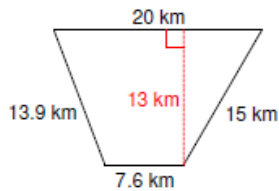
42.  $\frac{-4}{5}g = 12$

43.  $r - 6.4 = 2.25$

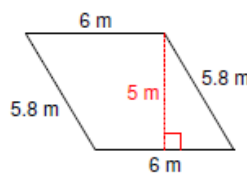
44.  $(-4d) + (-3d) = 28$

Find the perimeter and area of each figure:

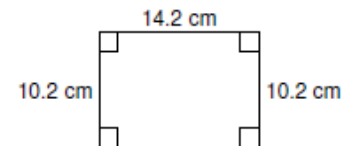
45.



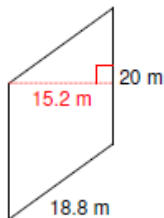
46.



47.



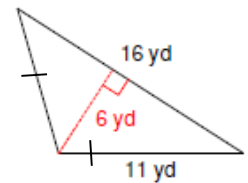
48.



49.



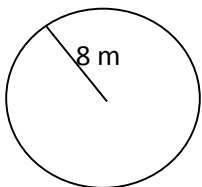
50.



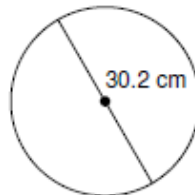
(Hint for # 50: the two "marks" on the sides mean that they are equal to each other.)

Find the area and circumference of each circle. Use 3.14 for pi and round to the nearest tenth.

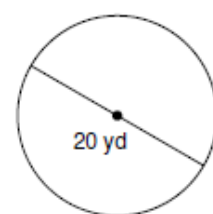
51.



52.



53.



Write the name of each decimal place indicated:

54. 29.87361

55. 3689.2584

56. 24.85419

Write the reciprocal:

57.  $\frac{3}{4}$

58.  $2\frac{4}{5}$

59. 8

60.  $\frac{1}{7}$