

Leon County Schools – Summer Math Worksheets – 8th Grade Pre-Algebra

This summer math worksheet is for students entering the 8th 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.

NO Calculators should be used on this worksheet.

Simplify:

1. $3\frac{1}{2} + 2\frac{3}{5}$

2. $7 - 3\frac{4}{7}$

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

4. $5\frac{5}{8} \cdot 2\frac{2}{3}$

5. $4\frac{3}{5} - 2\frac{2}{3} \div \frac{4}{9}$

6. $2\frac{4}{7} + 5\frac{1}{3} \div 1\frac{3}{5} \div 4\frac{2}{3}$

7. $\frac{360}{392}$

8. $\frac{18}{432}$

9. $\frac{140ab^2}{560a^2b}$

10. $4.45 + 3.4 + 7.254$

11. $8.2 - 3.46$

12. $1.5 \div 1.2$

13. $4.9 \cdot 5.32$

14. $6 - 7.25 \div 2.5 + 3.42$

15. $6 \cdot (-4) - (-2)$

16. $6k - 4 + 8k$

17. $3(m + 8)$

18. $(-5) - (-8) \cdot 7$

19. $-5(-2 + 4n)$

20. $\sqrt{169}$

21. $\sqrt{36} + \sqrt{81}$

22. $7m + 5c - 10m - 9c$

23. $6 \cdot 5 + 18 \div 3$

24. $7 - (-7c) + 4c$

Write each number as a decimal:

25. 3%

26. $\frac{2}{25}$

27. 42 $\frac{1}{2}$ %

28. $\frac{32}{40}$

Write each number as a fraction. Be sure to simplify:

29. 35%

30. 0.28

31. 3.82

32. 8%

Solve for the variable:

33. $7n + 9 = 86$

34. $m + 11 = -8$

35. $-4c - 8 = 24$

36. $\frac{v}{3} + 5 = 8$

37. $2m + 6m = -24$

38. $\frac{c}{-4} + 5 = -9$

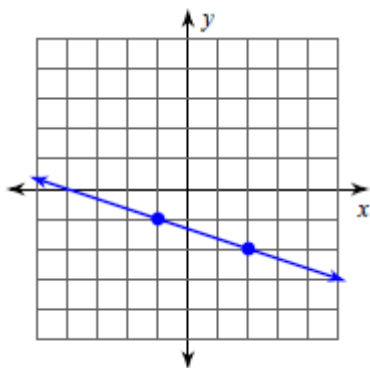
39. $d - 5 < 12$

40. $-7c > 21$

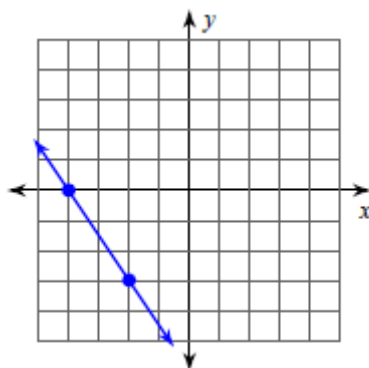
41. $-4m - 5 < 3$

Find the slope:

42.



43.

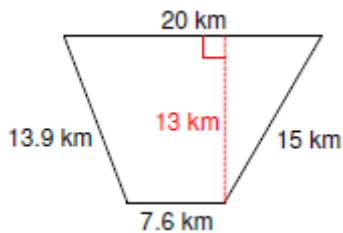


Name the polygon and find the perimeter and area:

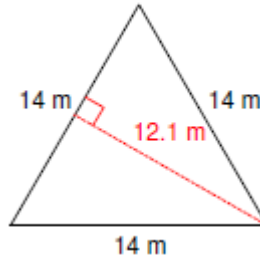
44.



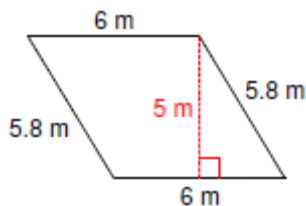
45.



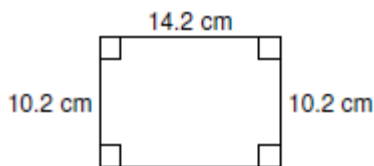
46.



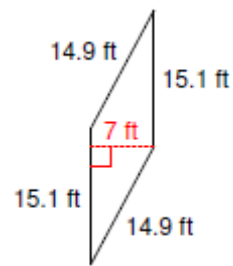
47.



48.

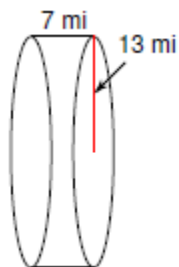


49.

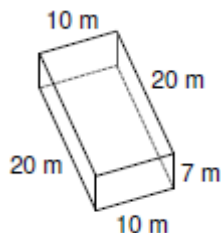


Name the polyhedra and find the volume and surface area:

50.



51.



52.

