

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. Your teacher will ask for this in August for a grade. 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%

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

25. $42\frac{1}{2}\%$

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

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

27. 35%

28. 0.28

29. 3.82

30. 8%

Solve for the variable:

31. $7n + 9 = 86$

32. $m + 11 = -8$

33. $-4c - 8 = 24$

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

35. $2m + 6m = -24$

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

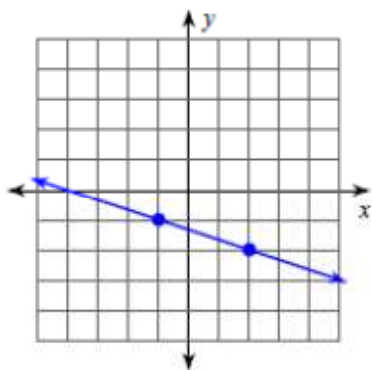
37. $d - 5 < 12$

38. $-7c > 21$

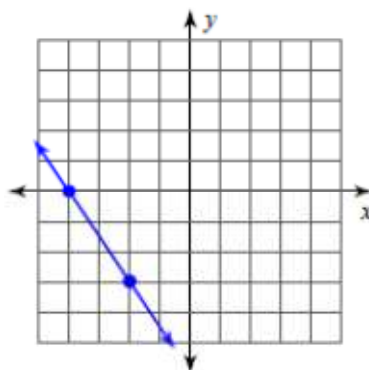
39. $-4m - 5 < 3$

Find the slope:

40.

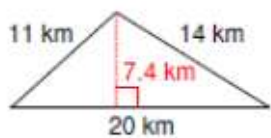


41.



Name the polygon and find the perimeter and area:

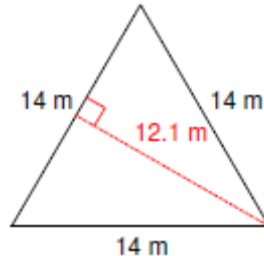
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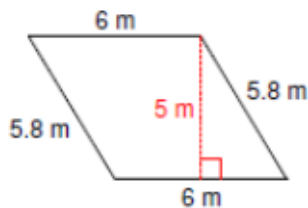
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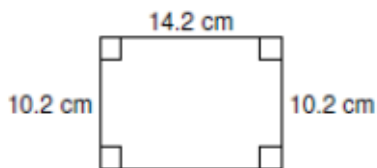
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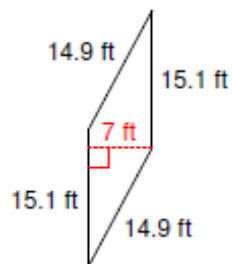
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46.

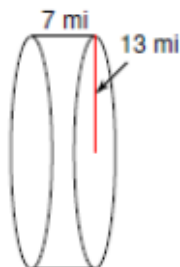


47.

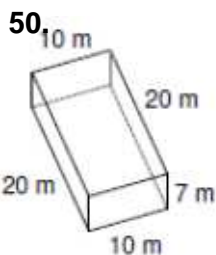


Name the polyhedra and find the volume and surface area:

48.



49.



50.

