

Summer Math Packet - Entering 7th Grade

No Calculators

Order the rational numbers from least to greatest.

1. 0.7, 0.3, -0.2, -0.4, 0.5

2. -0.5, -0.1, 0.3, 0, -0.3

3. 9, -3, 6, -2, -5

4. $\frac{11}{4}$, -2.4, $-\frac{16}{5}$, 3.7

5. $\frac{21}{2}$, -7.5, $-\frac{36}{5}$, 9.5

6. $\frac{17}{2}$, -6.7, $-\frac{28}{5}$, 8.2

Simplify the expressions

7. $322 \div 14$

8. $247 \div 19$

9. $2.3 + 3.4$

10. $5.8 - 2.1$

11. $4.2 - 1.9$

12. $\frac{3}{4} - \frac{1}{3}$

13. $\frac{3}{8} + \frac{7}{8}$

14. $\frac{4}{9} + \frac{5}{6}$

15. $16(9)$

16. $135 \div 9$

17. $\frac{7}{9} \cdot \frac{6}{5}$

18. $2\frac{1}{4} \div \frac{3}{8}$

19. $0.35 \cdot 1.2$

20. $0.25 \overline{)7.38}$

Evaluate the expression.

21. $6 + 9 \div 3$

22. $5^2 - 4 \cdot 2$

23. $(4 - 2)^3 - 2(3 + 1)$

24. $15 + 3(6 \div 2) - 4^2$

25. $15 - 4 \cdot 3$

26. $(9 + 9) + 7 \cdot 2$

27. A recipe for a batch of 3 dozen chocolate chip cookies calls for 3 cups of flour, 1 cup of sugar, and 2 cups of chocolate chips. How much of each ingredient should be used to make 2 dozen cookies?
28. You run 6 miles in 1 hour. At this rate, how long will it take you to run a marathon (approximately 26 miles)?

Solve

29. $x - 4 = 17$

30. $12 + x = 31$

31. $x - 9 = 7$

32. $44 = x + 5$

33. $2x = 68$

34. $3x = 27$

35. $\frac{x}{6} = 5$

36. $\frac{x}{10} = 32$

37. $\frac{x}{4} = 7$

38. $7x = 56$

Identify the figures below. Give all the names.

39.



40.



41.



42.



Classify the angle as acute, obtuse, right, or straight.

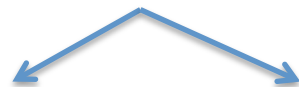
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44.



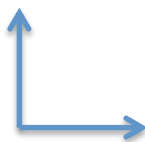
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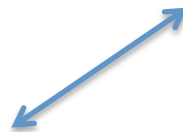
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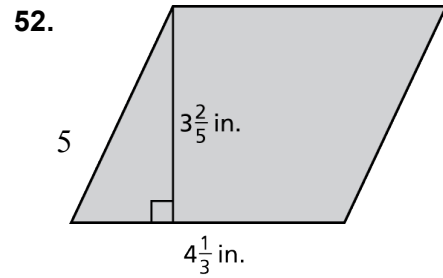
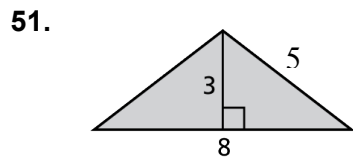
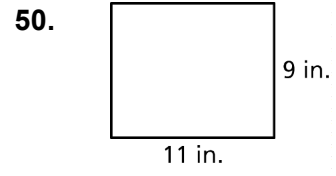
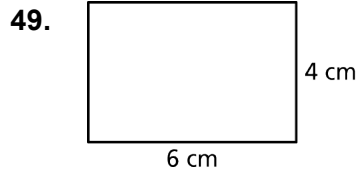
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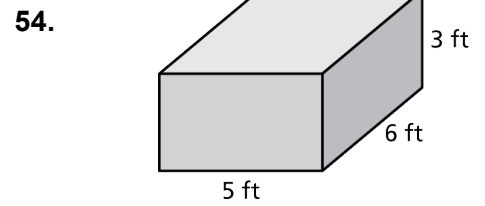
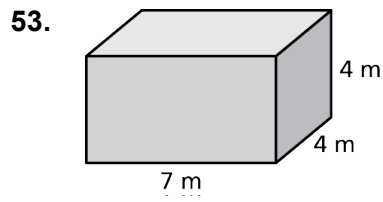
48.



Find the perimeter and area of the polygon.



Find the volume of the rectangular prism.



55. Tickets to a basketball game cost \$4 for adults and \$2 for children. Write an expression that gives the total cost for a adults and c children to attend the game. What is the total cost for a family of 2 adults and 3 children to attend the game?
56. A twelve-pack of juice costs \$4.20. An eighteen-pack costs \$5.40. Which is the better buy?
57. Chris, Mary Beth, and Allison are discussing the number of oranges grown in Florida. Chris says that approximately 14.6% of the world's oranges are grown in Florida, Mary Beth says that 292 out of every 2000 oranges are grown in Florida, and Allison says that 0.146 of the world's oranges are grown in Florida. Are they in agreement? Explain your reasoning.
58. A pizza shop offers 30% off the price of a large pizza every Tuesday night. If the regular price is \$25, what is the discounted price?

59. A farmer builds a fence to enclose a rectangular pasture. He uses 160 feet of fence. Find the total area of the pasture if it is 50 feet long.

60. You have piano lessons every seventh day and cooking lessons every fourth day. Today you have both lessons. In how many days will you have both lessons on the same day again?