Junior High Math League Sample Questions by Meet and Topic

Meet 2

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Meet 2 2.1 The Number Line 2.2 Understanding Exponents 2.3 Proportions 2.4 Proportional Scale Drawings (2-D) 2.5 Writing and Solving One-Variable Equations 2.6 Similar Figures 2.7 Data Displays







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2.1 The Number Line

_____2. What is the midpoint between -4 and 8.5?



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2.2 Understanding Exponents _____1. Write in exponential form: 2•2•2•3•3.



2.2 Understanding Exponents

 $2^{2}3^{2}5^{0}=4$ 4. Put in parentheses to make this a true statement: $2^{2}3^{2}5^{0}=4$

























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2.1 The Number Line
4. What is the coordinate of a point 3/4 of the way from 3 to 15?
Answer = 12 Subtract the two points to determine the distance $(15 - 3 = 12)$ Multiply by 3/4 and add to the first point
to determine the distance $3/4$ of the way $(12 * 3/4 = 9; 3 + 9 = 12)$.
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_4. If 4 is the midpoint of *A* and *B*, 10 is the midpoint of *B* and *C*, and *B* is the midpoint of 4 and 10. What is the distance from *A* to *C*?

Answer = 12

B is the midpoint of 4 and 10 so B is 7. 4 is the midpoint of A and B (7) so A is 1. 10 is the midpoint of B (7) and C so C is 13. The distance from A to C is 12 (13 - 1).

_____1. Write in exponential form: 2•2•2•3•3.





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2.5 Writing and Solving One-Variable Equations

8. Solve for x: 3(x-2) = 8x - 2(x+4).

Answer = 2/3 3(x-2) = 8x - 2(x+4) 3x - 6 = 8x - 2x - 8 3x - 6 = 6x - 8 -3x = -2x = 2/3







2.5 Writing and Solving One-Variable Equations

_6. A tutor charges \$45 for a first lesson and \$30 per lesson after that. Write an equation for the cost, C, in terms of the lessons, n.

Answer: C = 30n + 15 C = 45 + 30(n-1) C = 45 + 30n - 30C = 30n + 15





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