Junior High Math League Sample Questions by Meet and Topic

Meet 4

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Meet 4 4.1 Sequence and Series 4.2 Simplifying Radical Expressions 4.3 Proportional Scale Models (3-D) 4.4 Modeling with Linear Equations and Graphs 4.5 Parallel and Perpendicular Lines 4.6 Analyzing Scatter Plots





4.1 Sequences and Series
5. What number is next? 24352, 24461, 24570,
Answer =
5. Add 109 to get the next term.
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4.3 Proportional Scale Models (3-D)

A remote sensing map shows that 18 square inches of land is submerged in water due to floods. Find the actual area submerged in water, if the scale of the map is 1 square inch : 12 square miles.

Answer = 216 square miles

Let n be the actual area of the land submerged in water.

112 = 18n [Write the proportion.]

n x 1 = 18 x 12 [Write the cross products.]

n = 216 [Simplify.]

The actual area of the land submerged in water is 216 square miles.







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4.6 Analyz	zing Scatter Plots
4. V	What point is not on the line that the others are on? (2, 5), (3, 8), (4, 11), (6, 17), (8, 20)
Answer =	
<u>(8, 20)</u> 4. As in	s x increases by 1, y increases by 3 except (6, 17) to (8, 20) has x ncreases by 2 as y increases by 3.