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Patterns and Sequences

In-Class Practice

Describe the relationship between the terms in each arithmetic sequence. Then write the next three terms in each sequence.

55, 67, 79

48,58,68

0.4 is added to each term 2.0, 2.4, 2.8

to each term 73, 87, 101

110, 130, 150

NUMBER SENSE Find the 40th term in each arithmetic sequence.

13. GEOMETRY The lengths of the sides of a 6-sided polygon are an arithmetic sequence. The length of the shortest side is 3 meters. If the length of the next longer side is 5 meters, what is the length of the longest side?

3, 5, 7, 9, 11, 13



14. FREE FALLING OBJECT A free falling object increases speed by a little over 22 miles per hour each second. The arithmetic sequence 22, 44, 66, ..., represents the speed after each second, in miles per hour, of a dropped object. How fast is a rock falling after 8 seconds if it is dropped over the side of a cliff?

