

1. Find the term-to-term rule for each sequence.  
Write next three terms in each sequence.

a. Term-to-term rule: \_\_\_\_\_

20, 35, 50, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

b. Term-to-term rule: \_\_\_\_\_

5, 7.5, 10, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

c. Term-to-term rule: \_\_\_\_\_

50, 48, 46, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

d. Term-to-term rule: \_\_\_\_\_

95, 85, 75, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

2. Use the term-to-term rule to generate a sequence with five terms.

a. Term-to-term rule: add 9

3, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

b. Term-to-term rule: subtract 11

100, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

c. Term-to-term rule: add one half

5, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

d. Term-to-term rule: subtract 7.5

50, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

3. Use what you know about sequences to find the missing numbers.

a. 1, 11, \_\_\_\_\_, \_\_\_\_\_, 41, 51

b. \_\_\_\_\_, 16, 13, \_\_\_\_\_, \_\_\_\_\_, 4

c. \_\_\_\_\_, \_\_\_\_\_, 49, 43, 37, \_\_\_\_\_, \_\_\_\_\_,

d. 2, \_\_\_\_\_, 10, \_\_\_\_\_, 18, \_\_\_\_\_