

Algebra 1 Bellwork Tuesday, February 10, 2015 Sequences

Find the next three terms in each sequence.

1. 15, 22, 29, 36, ...

2. 6, -18, 54, -162, 486, ...

3. 1, 4, 9, 16, 25, ...

4. 64, 96, 144, 216, ...

5. 6, 7, 5, 8, 4, 9, 3, ...

6. $\frac{3}{2}, \frac{5}{4}, \frac{7}{8}, \frac{9}{16}, \dots$

7. 1, 2, 3, 5, 8, 13, ...

8. J, F, M, A, M, ...

9. f, s, t, f, f, s, ...

Algebra 1 Bellwork Tuesday, February 10, 2015 Sequences ANSWERS

Find the next three terms in each sequence.

1. 15, 22, 29, 36, ... **43, 50, 57**

ADD 7

2. 6, -18, 54, -162, 486, ... **-1458, 4374, -13122**

MULT BY -3

3. 1, 4, 9, 16, 25, ... **36, 49, 64**

**- ADD NEXT ODD #
OR
- LIST OF PERFECT SQUARES**

4. 64, 96, 144, 216, ... **324, 486, 729**

MULT BY 1.5

5. 6, 7, 5, 8, 4, 9, 3, ... **10, 2, 11**

ADD 1, SUBTRACT 2, ADD 3, SUBTRACT 4, ...

6. $\frac{3}{2}, \frac{5}{4}, \frac{7}{8}, \frac{9}{16}, \dots$ **$\frac{11}{32}, \frac{13}{64}, \frac{15}{128}$**

numerator - next odd #

denominator - MULT BY 2 (powers of 2)

7. 1, 2, 3, 5, 8, 13, ... **21, 34, 55**

FIBONACCI SEQUENCE

8. J, F, M, A, M, ...

9. f, s, t, f, f, s, ...