

Patterns Practice- Numbers

For each problem, find the next three terms in the pattern. Show work!

1. 1, 5, 4, 8, 7, _____, _____, _____

2. 1, 2, 4, 8, 16, _____, _____, _____

3. 45, 36, 28, 21, 15, _____, _____, _____

4. $\frac{2}{5}, \frac{4}{10}, \frac{6}{15}, \frac{8}{20},$ _____, _____, _____

5. I, III, V, VII, _____, _____, _____

6. 128, 111, 96, 83, _____, _____, _____

7. (1, 5), (2, 9), (3, 13), (4, 17), (5, 21), _____, _____, _____

8. (162, 48), (324, 24), (648, 12), (1296, 6), _____, _____, _____

9. Add each pair of fractions. Describe any pattern you see.

$$\frac{1}{2} + \frac{1}{4}$$

$$\frac{3}{4} + \frac{1}{8}$$

$$\frac{7}{8} + \frac{1}{16}$$

$$\frac{15}{16} + \frac{1}{32}$$

$$\frac{31}{32} + \frac{1}{64}$$