Homework

Activity 1

Tell what type of number or pattern is being described by each of the algebraic patterns.

1. $2 \cdot n$
  (a) prime
  (b) divisible by 3
  (c) even

2. $\frac{n}{5}$
  (a) even
  (b) divisible by 5
  (c) odd

3. $2 \cdot n + 1$
  (a) even
  (b) divisible by 2
  (c) odd

4. $\frac{n}{2}$ and $\frac{n}{3}$
  (a) even
  (b) divisible by 3
  (c) divisible by 6

Activity 2

Tell the numbers in each list that apply to the rule. Use the algebra rules to help you.

1. Which numbers are prime?
  1   2   4   5   7   9   11   12   13   15   21   23

2. Which numbers are divisible by 3?
  111   122   124   135   157   169   211   212   313   414   521   523

3. Which numbers are divisible by 6?
  51   62   64   65   77   99   111   312   413   515   621   723

4. Which numbers are divisible by 5?
  15   23   42   55   60   75   95   96   97   100   210   230

Homework

Activity 3

Tell the percent decrease.

1. Jones Lake was 100 feet deep and Taylor Lake was 88 feet deep last year. Both lakes dropped 4 feet this year. What was the percent decrease for each lake?

2. The Scatter Plots sold 3,427 CDs last year. They sold 1,500 fewer this year. What was the percent decrease in sales?

3. There were 500 students in the senior class last year. This year there were 150 fewer students. What was the percent decrease in the number of students?

Activity 4 • Distributed Practice

Solve.

1. $\frac{6}{9} - \frac{1}{8} = a$

2. $32.4 \cdot 5 = b$

3. $\frac{7}{11} \div \frac{4}{5} = c$

4. $1,698.25 + 4,876.19 + 2,500.47 = d$

5. Write the decimal number 0.99 as a percent.

6. Write the fraction $\frac{3}{8}$ as a decimal number.

7. Write 54% as a fraction.

8. Write 0.1% as a decimal number.