**Extra Practice 1 Monday**

Lesson 1: Number Patterns and Pattern Rules

1. Fill in the missing terms in the patterns.

a) 3, 6, 9, 12, 15, \_\_\_\_, \_\_\_\_, \_\_\_\_...

b) 1, 3, 6, 10, 15, \_\_\_, \_\_\_\_, \_\_\_\_...

c) 50, 48, 46, 44, 42, \_\_\_, \_\_\_\_, \_\_\_\_...

d) 3, 6, 4, 7, 5, \_\_\_, \_\_\_\_, \_\_\_\_...

2. What is the 10th term of this pattern?

Start at 15. Alternately take away 2, then add 3.

3. Find each missing term. Describe the pattern.

a) 2, 4, 6, 8, \_\_, 12, 14…

b) 2, 4, 3, 5, 4, \_\_, 5, 7…

c) 26, 23, 20, \_\_, 14…

d) 2, 102, 202, 302, \_\_\_\_, 502…

4. Use counters to show one of the patterns in question 3.

Predict the next 3 terms.

Use counters to check your predictions.

5. Write two patterns that start: 3, 6,…

For each pattern, list the first 7 terms and write the pattern rule.

Show your work.

6. What is the 7th term in this pattern?

Start at 24. Alternately subtract 6 and add 2.

Show your work.

 **Extra Practice 2 Tuesday**

Lesson 2: Using Patterns to Solve Problems

1. Continue the pattern.

Object Number of Containers

2

3 7

4 10

5 13

6 16

2. During Canada Day celebrations, 4 fireworks are launched in ten seconds. If this continues, when will 32 fireworks have been launched?

 Make a table to record the pattern. Solve the problem.

3. Ethan earns $8.25 for each hour he works at a bottle return depot. He wants to buy a new bike helmet that will cost about $60. How many hours will Ethan need to work in order to buy the new helmet?

 Make a table to record the pattern. Solve the problem.

4. How many squares are in this shape?

**Extra Practice 3 Wednesday**

Lesson 3: Using a Variable to Describe a Pattern

1. Complete the table.

Object Number of containers Term Value

1 4 4 = 1 + 3

2 5 5 =

3 6

4 7

5 8

6 9

2. What is the expression for the pattern shown in the table in question 1?

3. Write a story problem that matches the expression you wrote for question 2.

4. Complete the table.

Term Number Term Value

1 100

2 99

3 98

4 97

5

6

5. Write an expression for the pattern shown in question 4.

6. Write a word problem that matches the pattern in question 4.

 **Extra Practice 5 Thursday**

Lesson 5: Using a Variable to Write an Equation

1. Which of the following statements are equations? How do you know?

a) 4 + 2 b) 12 – 6 = n c) 100 + y d) 14 = 24 – r

2. A local animal shelter has 12 kittens for adoption. Some are adopted on Monday and some on Tuesday. On Wednesday there are 2 kittens left. How many kittens were adopted on Monday and Tuesday?

 Which equation below represents the problem?

a) 12 × 2 = 24

b) 10 = 12 – 2

c) 12 – k = 2

d) 12 ÷ 2 = k

 Write two equations for each of the following questions.

3. Tessa borrowed 3 books from the library on Monday, and some more books later that week. She returned all 12 books at the end of the week. How many books did Tessa borrow later that week?

4. Luigi read 38 pages of his novel each day for a week. How many pages did he read altogether that week?

5. Mohsan shared his box of strawberries with 5 friends. They each received 15 strawberries. How many were in Mohsan’s box originally?

6. Terry Lee shared 63 pencils among a group of 9 students. How many pencils did each student receive?

**Extra Practice 6 Friday**

Lesson 6: Solving Equations Involving Addition and Subtraction

1. Solve each equation.

 a) 10 = n + 7

 b) p – 5 = 15

 c) 6 + d = 18

 d) 25 = 100 – r

2. Write two equations for each sentence.

a) There were some stamps in a stamp book. Elsie used 2 stamps, leaving 48 stamps. How many stamps were originally in the stamp book?

b) Contractors laid out a 100 m2 grid for a new school playground area. The super-slide will use 42 m2. What area is left for the rest of the playground?

3. Solve each equation in question 2.

4. Write a word problem to match each equation below.

 a) 144 – d = 100

 b) 38 = b + 12

 c) b = 99 + 1

 d) 22 – 10 = m