

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## ALL ABOUT PATTERNS – QUIZ PRACTICE

1. Create an increasing (growing) pattern using numbers. Record the pattern rule.

2. Create a decreasing (shrinking) pattern using numbers. Record the pattern rule.

3. Mrs. Ross was making hot chocolate. She had 32 large marshmallows in a bag. Look at the chart below and identify how many marshmallows were used for each cup of hot chocolate.

Number of cups	Number of marshmallows left
1	32
2	28
3	24
4	20

a) What is the pattern rule? \_\_\_\_\_

\_\_\_\_\_

b) How many marshmallows would be left for the 7<sup>th</sup> cup? \_\_\_\_\_

c) How many cups of hot chocolate can Mrs. Ross make leaving no leftover marshmallows?

4. Look at the pattern below and answer the questions.

10, 12, 16, 18, 22, 24, 28...

a) What is the pattern rule? \_\_\_\_\_

\_\_\_\_\_

b) What would the next three numbers be? \_\_\_\_\_

5. Use the information in the chart to help you solve the problems below.

Number of weeks	Height of plant (cm)
1	6
2	12
3	18

a) How much does the plant grow each week? What is the pattern?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

b) How tall will the plant be in 8 weeks? \_\_\_\_\_

c) How tall will the plant be in 12 weeks? \_\_\_\_\_

**\*BONUS:**

PAPER ROUTE	
Thomas has a paper route. For each week he earns \$30.00. How much will he earn at the end of 6 weeks? In which week will he have total earnings over \$200.00?	
Number of Weeks	Earnings (\$)
1	\$30.00
2	\$60.00
3	\$90.00

