

# Process Standards Rubric

## Algebra

| Expectations<br>Instructional programs from pre-kindergarten through grade 12 should enable all students to: | Exercise |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|--|----------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
|  | 1        | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| GOAL 1: Problem Solving  | ✓        | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| GOAL 2: Reasoning & Proof  | ✓        | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| GOAL 3: Communication  | ✓        | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| GOAL 4: Connections  | ✓        | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| GOAL 5: Representation   | ✓        | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
|  | ✓        | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
|  | ✓        | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
|  | ✓        | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
|  | ✓        | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
|  | ✓        | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
|  | ✓        | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| Drill Sheet 1  | ✓        | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| Drill Sheet 2  | ✓        | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| Review A   | ✓        | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| Review B   | ✓        | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| Review C   | ✓        | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |



# Task Sheet 14

14a) Look at this pattern.



How would you show this pattern using letters?

- i) ABB
- ii) ABA
- iii) AAB
- iv) BAB

b) **Jacob's mother has been keeping track of his weight for the past few years. Here is the chart she made to show his yearly weight gain.**

| Ages      | Weight gain |
|-----------|-------------|
| 0-1 year  | 9 pounds    |
| 1-2 years | 5 pounds    |
| 2-3 years | 4 pounds    |
| 3-4 years | 4 pounds    |

If Jacob weighed 8 pounds when he was born, what was his total weight by the time he was four?



Show Your Work

Answer: \_\_\_\_\_



# Review C

a) The two number sentences below belong to a *fact family*.

$5 + 4 = 9$       and       $9 - 4 = 5$

Which of the following pairs of number sentences belong to the same fact family as the one above?

- i)  $5 + 9 = 14$  and  $14 - 9 = 5$
- ii)  $4 + 5 = 9$  and  $9 - 5 = 4$
- iii)  $5 - 4 = 1$  and  $1 + 4 = 5$
- iv)  $9 - 0 = 9$  and  $9 - 9 = 0$

b) **Look at this pattern.**



How would you show this pattern using letters?

- i) AAB
- ii) ABA
- iii) ABB
- iv) BAB

c) **Jack has 28 baseball cards. What is one way of putting these cards into equal groups?**

- i) 4 groups of 7
- ii) 5 groups of 6
- iii) 3 groups of 8
- iv) 9 groups of 4

d) **Graph the figure below on the accompanying number line.**

$x = -6$



# Patterning, Graphing



a) The first four figures of a pattern are shown below.



Figure 1



Figure 2



Figure 3

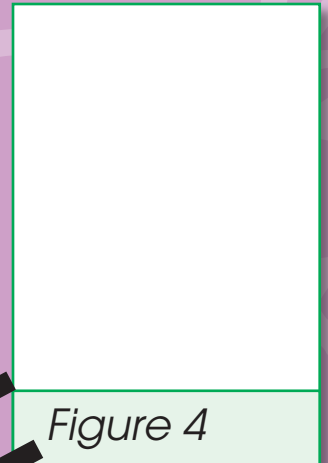


Figure 4

Now complete the bar graph below to show the number of \_\_\_\_\_ in each figure.

