



New York State Testing Program

Mathematics Test

Grade **4**

2009 Scoring Guide Part 1

39

Ms. Marshall started making dolls. The table below shows the total number of dolls she had made by the end of each of the first four weeks.

MS. MARSHALL'S DOLLS

Week	Total Number of Dolls
1	3
2	6
3	9
4	12

If the pattern in the table continues, how many dolls will Ms. Marshall have made by the end of **Week 6**?

Answer _____ dolls

On the line below, write the rule that can be used to find the total number of dolls Ms. Marshall made by the end of any number of weeks.

Rule _____

Ms. Marshall wants to make a total of 30 dolls. If the pattern in the table continues, by the end of which week will she have made 30 dolls?

Answer Week _____

QUESTION 39

STRAND 2: ALGEBRA

Complete and Correct Response:

- 18 (dolls)

AND

- The number of weeks \times 3 gives the total number of dolls made.
OR other valid response

AND

- (Week) 10

Score Points:

Apply 3-point holistic rubric.

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Week	Total Number of Dolls
1	3
2	6
3	9
4	12

If the pattern in the table continues, how many dolls will Ms. Marshall have made by the end of Week 6?

Answer 18 dolls

On the line below, write the rule that can be used to find the total number of dolls Ms. Marshall made by the end of any number of weeks.

Rule multiply week by 3's

Ms. Marshall wants to make a total of 30 dolls. If the pattern in the table continues, by the end of which week will she have made 30 dolls?

Answer Week 10

This response is complete and correct.

Score Point 3

- 39 Ms. Marshall started making dolls. The table below shows the total number of dolls she had made by the end of each of the first four weeks.

MS. MARSHALL'S DOLLS

Week	Total Number of Dolls
1	3
2	6
3	9
4	12

If the pattern in the table continues, how many dolls will Ms. Marshall have made by the end of Week 6?

Answer 18 dolls

On the line below, write the rule that can be used to find the total number of dolls Ms. Marshall made by the end of any number of weeks.

Rule Multiply 3

Ms. Marshall wants to make a total of 30 dolls. If the pattern in the table continues, by the end of which week will she have made 30 dolls?

Answer Week 10

This response is complete and correct.

Score Point 3

39

Ms. Marshall started making dolls. The table below shows the total number of dolls she had made by the end of each of the first four weeks.

MS. MARSHALL'S DOLLS

Week	Total Number of Dolls
1	3
2	6
3	9
4	12

If the pattern in the table continues, how many dolls will Ms. Marshall have made by the end of Week 6?

Answer 18 dolls

On the line below, write the rule that can be used to find the total number of dolls Ms. Marshall made by the end of any number of weeks.

Rule +3 and x3.

Ms. Marshall wants to make a total of 30 dolls. If the pattern in the table continues, by the end of which week will she have made 30 dolls?

Answer Week 10

This response is partially correct. The answers are correct; however, the statement of the rule contains both the correct rule "x3" and the definition of a vertical pattern, which is not acceptable.

Score Point 2

- 39 Ms. Marshall started making dolls. The table below shows the total number of dolls she had made by the end of each of the first four weeks.

MS. MARSHALL'S DOLLS

Week	Total Number of Dolls
1	3
2	6
3	9
4	12

5-15
6-18
7-21
8-24

If the pattern in the table continues, how many dolls will Ms. Marshall have made by the end of Week 6?

Answer 18 dolls

9-27
10-30

On the line below, write the rule that can be used to find the total number of dolls Ms. Marshall made by the end of any number of weeks.

Rule +3

Ms. Marshall wants to make a total of 30 dolls. If the pattern in the table continues, by the end of which week will she have made 30 dolls?

Answer Week 10

This response is partially correct. The answers are correct; however, the rule incorrectly defines a vertical pattern and not the rule.

Score Point 2

39

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MS. MARSHALL'S DOLLS

Week	Total Number of Dolls
1	3
2	6
3	9
4	12

If the pattern in the table continues, how many dolls will Ms. Marshall have made by the end of Week 6?

Answer 21 dolls

On the line below, write the rule that can be used to find the total number of dolls Ms. Marshall made by the end of any number of weeks.

Rule MULTIPLY 3

Ms. Marshall wants to make a total of 30 dolls. If the pattern in the table continues, by the end of which week will she have made 30 dolls?

Answer Week 6

This response demonstrates only a limited understanding of the mathematical concepts embodied in the task. Both answers are incorrect; however, the rule is correctly stated.

Score Point 1

- 39 Ms. Marshall started making dolls. The table below shows the total number of dolls she had made by the end of each of the first four weeks.

MS. MARSHALL'S DOLLS

Week	Total Number of Dolls
1	3
2	6
3	9
4	12

If the pattern in the table continues, how many dolls will Ms. Marshall have made by the end of Week 6?

Answer 18 dolls

On the line below, write the rule that can be used to find the total number of dolls Ms. Marshall made by the end of any number of weeks.

Rule add 3

Ms. Marshall wants to make a total of 30 dolls. If the pattern in the table continues, by the end of which week will she have made 30 dolls?

Answer Week yes

This response demonstrates only a limited understanding of the task. The first answer is correct; however, both the stated rule and the second answer are incorrect.

Score Point 1

39

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MS. MARSHALL'S DOLLS

Week	Total Number of Dolls
1	3
2	6
3	9
4	12

If the pattern in the table continues, how many dolls will Ms. Marshall have made by the end of Week 6?

Answer 40 dolls

On the line below, write the rule that can be used to find the total number of dolls Ms. Marshall made by the end of any number of weeks.

Rule * 8

Ms. Marshall wants to make a total of 30 dolls. If the pattern in the table continues, by the end of which week will she have made 30 dolls?

Answer Week 5

This response is incorrect.

Score Point 0



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2009 Practice Set

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MS. MARSHALL'S DOLLS

Week	Total Number of Dolls
1	3
2	6
3	9
4	12

If the pattern in the table continues, how many dolls will Ms. Marshall have made by the end of Week 6?

Answer 18 dolls

On the line below, write the rule that can be used to find the total number of dolls Ms. Marshall made by the end of any number of weeks.

Rule 3, 6, 9, 12, 15, 18

Ms. Marshall wants to make a total of 30 dolls. If the pattern in the table continues, by the end of which week will she have made 30 dolls?

Answer Week 6

39

Ms. Marshall started making dolls. The table below shows the total number of dolls she had made by the end of each of the first four weeks.

MS. MARSHALL'S DOLLS

Week	Total Number of Dolls
1	3
2	6
3	9
4	12

If the pattern in the table continues, how many dolls will Ms. Marshall have made by the end of Week 6?

Answer 18 dolls

On the line below, write the rule that can be used to find the total number of dolls Ms. Marshall made by the end of any number of weeks.

Rule X the week by 3.

Ms. Marshall wants to make a total of 30 dolls. If the pattern in the table continues, by the end of which week will she have made 30 dolls?

Answer Week 10

39

Ms. Marshall started making dolls. The table below shows the total number of dolls she had made by the end of each of the first four weeks.

MS. MARSHALL'S DOLLS

Week	Total Number of Dolls
1	3
2	6
3	9
4	12

If the pattern in the table continues, how many dolls will Ms. Marshall have made by the end of Week 6?

Answer 12 dolls

On the line below, write the rule that can be used to find the total number of dolls Ms. Marshall made by the end of any number of weeks.

Rule You go to count the number

Ms. Marshall wants to make a total of 30 dolls. If the pattern in the table continues, by the end of which week will she have made 30 dolls?

Answer Week 4

39

Ms. Marshall started making dolls. The table below shows the total number of dolls she had made by the end of each of the first four weeks.

2

MS. MARSHALL'S DOLLS

Week	Total Number of Dolls		
		6	18
1	3	7	21
2	6	8	24
3	9	9	27
4	12	10	30
	5	15	

If the pattern in the table continues, how many dolls will Ms. Marshall have made by the end of Week 6?

Answer 18 dolls

On the line below, write the rule that can be used to find the total number of dolls Ms. Marshall made by the end of any number of weeks.

Rule $3 \times 6 =$

Ms. Marshall wants to make a total of 30 dolls. If the pattern in the table continues, by the end of which week will she have made 30 dolls?

Answer Week 10

39

Ms. Marshall started making dolls. The table below shows the total number of dolls she had made by the end of each of the first four weeks.

MS. MARSHALL'S DOLLS

Week	Total Number of Dolls
1	3
2	6
3	9
4	12

If the pattern in the table continues, how many dolls will Ms. Marshall have made by the end of Week 6?

Answer 18 dolls

$$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$$

On the line below, write the rule that can be used to find the total number of dolls Ms. Marshall made by the end of any number of weeks.

Rule is to time the week # by three or keep adding three to the # of dolls.

Ms. Marshall wants to make a total of 30 dolls. If the pattern in the table continues, by the end of which week will she have made 30 dolls?

Answer Week 10

$$\begin{array}{r} \times 3 \\ 10 \\ \hline 00 \\ 30 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 10 \\ 3 \overline{) 30} \\ \underline{30} \\ 0 \end{array}$$

4TH GRADE MATHEMATICS

Name: _____

PRACTICE SET ANSWER KEY

PS 1	(0-2)	
PS 2	(0-2)	
PS 3	(0-2)	
PS 4	(0-2)	
PS 5	(0-2)	
PS 6	(0-2)	
PS 7	(0-2)	
PS 8	(0-2)	
PS 9	(0-2)	
PS 10	(0-2)	
PS 11	(0-2)	
PS 12	(0-2)	
PS 13	(0-2)	
PS 14	(0-2)	
PS 15	(0-2)	
PS 16	(0-2)	
PS 17	(0-2)	
PS 18	(0-2)	
PS 19	(0-2)	
PS 20	(0-2)	
PS 21	(0-2)	
PS 22	(0-2)	
PS 23	(0-2)	
PS 24	(0-2)	
PS 25	(0-2)	

PS 26	(0-2)	
PS 27	(0-2)	
PS 28	(0-2)	
PS 29	(0-2)	
PS 30	(0-2)	
PS 31	(0-2)	
PS 32	(0-2)	
PS 33	(0-2)	
PS 34	(0-2)	
PS 35	(0-2)	
PS 36	(0-3)	
PS 37	(0-3)	
PS 38	(0-3)	
PS 39	(0-3)	
PS 40	(0-3)	
PS 41	(0-3)	
PS 42	(0-3)	
PS 43	(0-3)	
PS 44	(0-3)	
PS 45	(0-3)	
PS 46	(0-2)	
PS 47	(0-2)	
PS 48	(0-2)	
PS 49	(0-2)	
PS 50	(0-2)	

4TH GRADE MATHEMATICS

Name: _____

PRACTICE SET ANSWER KEY

PS 51	(0-2)	
PS 52	(0-2)	
PS 53	(0-2)	
PS 54	(0-2)	
PS 55	(0-2)	
PS 56	(0-2)	
PS 57	(0-2)	
PS 58	(0-2)	
PS 59	(0-2)	
PS 60	(0-2)	
PS 61	(0-2)	
PS 62	(0-2)	
PS 63	(0-2)	
PS 64	(0-2)	
PS 65	(0-2)	
PS 66	(0-2)	
PS 67	(0-2)	
PS 68	(0-2)	
PS 69	(0-2)	
PS 70	(0-2)	

PS 71	(0-2)	
PS 72	(0-2)	
PS 73	(0-2)	
PS 74	(0-2)	
PS 75	(0-2)	
PS 76	(0-2)	
PS 77	(0-2)	
PS 78	(0-2)	
PS 79	(0-2)	
PS 80	(0-2)	
PS 81	(0-3)	
PS 82	(0-3)	
PS 83	(0-3)	
PS 84	(0-3)	
PS 85	(0-3)	
PS 86	(0-3)	
PS 87	(0-3)	
PS 88	(0-3)	
PS 89	(0-3)	
PS 90	(0-3)	