



# ***New York State Testing Program***

## **Mathematics Test**

Grade **4**

**2009 Scoring Guide Part 1**

**38**

The students on Kimani's track team are training for a race. The table below shows the total number of miles they ran during certain weeks.

### TRACK TEAM MILES

Week	Total number of miles the team ran
2	24
4	36
6	48
8	60
10	?

If the pattern in the table continues for two more weeks, how many miles will the team run during **Week 10**?

**Answer** \_\_\_\_\_ miles

During what week did the team run exactly 54 miles?

**Answer** Week \_\_\_\_\_

On the lines below, explain how you found your answer.

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**QUESTION 38**

**STRAND 5: STATISTICS AND PROBABILITY**

*Complete and Correct Response:*

- 72 (miles)

**AND**

- (Week) 7

**AND**

- Every 2 weeks, the number of miles goes up by 12. That means they probably ran 6 more miles every week. Add 6 to the 48 miles ran in week 6 and you get 54.

OR other valid response

*Score Points:*

Apply 3-point holistic rubric.

**38**

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Week	Total number of miles the team ran
2	24
4	36
6	48
8	60
10	?

If the pattern in the table continues for two more weeks, how many miles will the team run during Week 10?

Answer 72 miles

During what week did the team run exactly 54 miles?

Answer Week 7

On the lines below, explain how you found your answer.

It is 7 because since two weeks is 12  
one week is half of 12 which is  
6 and on week 6 there is 48. so 6  
plus 48 equals 54 miles.

This response is complete and correct.

Score Point 3

38

The students on Kimani's track team are training for a race. The table below shows the total number of miles they ran during certain weeks.

**TRACK TEAM MILES**

Week	Total number of miles the team ran
2	24
4	36
6	48
8	60
10	?

~~24~~  
$$\begin{array}{r} +12 \\ \hline 36 \end{array}$$
$$\begin{array}{r} +12 \\ \hline 48 \end{array}$$
$$\begin{array}{r} +12 \\ \hline 60 \end{array}$$
$$\begin{array}{r} +12 \\ \hline 72 \end{array}$$

If the pattern in the table continues for two more weeks, how many miles will the team run during Week 10?

Answer 72 miles

During what week did the team run exactly 54 miles?

Answer Week 7

On the lines below, explain how you found your answer.

I got my answer by looking at the  
chart and everything was adding 12 and  
half of 12 is 6 so then I added everything  
+6 and when I got up to 48+6 I got  
54 and the number between 6 and 8 is 7.

This response is complete and correct.

Score Point 3

**38**

The students on Kimani's track team are training for a race. The table below shows the total number of miles they ran during certain weeks.

### TRACK TEAM MILES

Week	Total number of miles the team ran
2	24
4	36
6	48
8	60
10	?

If the pattern in the table continues for two more weeks, how many miles will the team run during Week 10?

Answer 72 miles

During what week did the team run exactly 54 miles?

Answer Week 7

On the lines below, explain how you found your answer.

I add by 12. ~~and~~ 6.

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This response is partially correct. The answers are correct; however, the explanation is unclear.

Score Point 2

**38**

The students on Kimani's track team are training for a race. The table below shows the total number of miles they ran during certain weeks.

### TRACK TEAM MILES

Week	Total number of miles the team ran
2	24
4	36
6	48
8	60
10	?

If the pattern in the table continues for two more weeks, how many miles will the team run during Week 10?

Answer 72 miles

During what week did the team run exactly 54 miles?

Answer Week 7

On the lines below, explain how you found your answer.

First I looked at the "week" and the weeks was counting by two. Then I looked at the "total number of teams ran" on the left side of the number was counting by ones and on the right side it was counting by two's so that is how I got my answer.

This response is partially correct. The answers are correct; however, the explanation is unclear.

Score Point 2

38

The students on Kimani's track team are training for a race. The table below shows the total number of miles they ran during certain weeks.

**TRACK TEAM MILES**

Week	Total number of miles the team ran
2	24
4	36
6	48
8	60
10	?

12  
14  
16  
18  
20  
22  
24  
26

24

72

If the pattern in the table continues for two more weeks, how many miles will the team run during Week 10?

Answer 84 miles

During what week did the team run exactly 54 miles?

Answer Week 10

On the lines below, explain how you found your answer.

I found my answer by adding 24  
to 60.

This response is incorrect.

Score Point 0



# ***New York State Testing Program***

## **Mathematics Test**

Grade **4**

**2009 Practice Set**

38

The students on Kimani's track team are training for a race. The table below shows the total number of miles they ran during certain weeks.

### TRACK TEAM MILES

Week	Total number of miles the team ran
2	24
<del>3</del>	<del>12</del>
4	36
<del>5</del>	<del>12</del>
6	48
<del>7</del> 6	<del>12</del> 54
8	60
<del>9</del>	<del>12</del>
10	72?

If the pattern in the table continues for two more weeks, how many miles will the team run during Week 10?

Answer 72 miles

During what week did the team run exactly 54 miles?

Answer Week 7

On the lines below, explain how you found your answer.

You have to count every odd number up by six.

**38**

The students on Kimani's track team are training for a race. The table below shows the total number of miles they ran during certain weeks.

**TRACK TEAM MILES**

Week	Total number of miles the team ran
2	24
4	36
6	48
8	60
10	? 7 <sub>2</sub>

*Handwritten:*  
36  
~~24~~  
12

If the pattern in the table continues for two more weeks, how many miles will the team run during Week 10?

Answer 72 miles

During what week did the team run exactly 54 miles?

Answer Week Week 7

On the lines below, explain how you found your answer.

The chart for the weeks part is counting by 2's so 7 had to be between 6 and 8. Half of 12 is six and when you add  $6 + 48 = 54$ , so the answer had to be week 7.

**38**

The students on Kimani’s track team are training for a race. The table below shows the total number of miles they ran during certain weeks.

**TRACK TEAM MILES**

<b>Week</b>	<b>Total number of miles the team ran</b>
2	24
4	36
6	48
8	60
10	?

If the pattern in the table continues for two more weeks, how many miles will the team run during Week 10?

Answer 72 miles

During what week did the team run exactly 54 miles?

Answer Week 5

On the lines below, explain how you found your answer.

I saw that the rule  
was  $+12$  so  $24 + 12 = 36$ ,  
 $36 + 12 = 48$ ,  $48 + 12 = 60$  and  $60$   
 $+ 12$  is  $72$  so I got  $72$ ,  
1 week is  $6$ , 2 weeks is  $12$ .

**38**

The students on Kimani’s track team are training for a race. The table below shows the total number of miles they ran during certain weeks.

**TRACK TEAM MILES**

<b>Week</b>	<b>Total number of miles the team ran</b>
2	24
4	36
6	48
8	60
10	?

If the pattern in the table continues for two more weeks, how many miles will the team run during Week 10?

Answer 54 miles

During what week did the team run exactly 54 miles?

Answer Week 10

On the lines below, explain how you found your answer.

I found my answer by multiplying  
by 5 and add 4 into it

- 38** The students on Kimani's track team are training for a race. The table below shows the total number of miles they ran during certain weeks.

### TRACK TEAM MILES

Week	Total number of miles the team ran
2	24
4	36
6	48
8	60
10	?

4.

$$\begin{array}{r} 60 \\ + 12 \\ \hline 72 \end{array}$$

If the pattern in the table continues for two more weeks, how many miles will the team run during Week 10?

Answer 70 miles

During what week did the team run exactly 54 miles?

Answer Week 6

On the lines below, explain how you found your answer.

I got my answer by  $48 + 6 = 54$   

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# 4<sup>TH</sup> 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)	

# 4<sup>TH</sup> 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)	
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PS 76	(0-2)	
PS 77	(0-2)	
PS 78	(0-2)	
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PS 80	(0-2)	
PS 81	(0-3)	
PS 82	(0-3)	
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PS 87	(0-3)	
PS 88	(0-3)	
PS 89	(0-3)	
PS 90	(0-3)	