



New York State Testing Program

Mathematics Test

Grade **3**

2009 Scoring Guide

30

The table below shows the number of minutes Carrie practiced dancing on four different days.

CARRIE'S DANCE PRACTICE

Day	Minutes
Day 1	18
Day 2	25
Day 3	32
Day 4	39
Day 5	?

If the pattern in the table continues, how many minutes will Carrie practice dancing on Day 5?

Answer _____ minutes

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

If the pattern in the table continues for a few more days, on what day will Carrie practice dancing for 53 minutes?

Answer Day _____

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QUESTION 30

STRAND 2: ALGEBRA

Complete and Correct Response:

- 46 (minutes)

AND

- She added 7 minutes each day. $39 + 7 = 46$.

OR other valid response

Note: Accept the following phrases: counted by, went up by, increased by.

AND

- (Day) 6

Score Points:

Apply 3-point holistic rubric.

30

The table below shows the number of minutes Carrie practiced dancing on four different days.

CARRIE'S DANCE PRACTICE

Day	Minutes
Day 1	18
Day 2	25
Day 3	32
Day 4	39
Day 5	?

If the pattern in the table continues, how many minutes will Carrie practice dancing on Day 5?

Answer 46 minutes

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

$$\begin{array}{r} 39 \\ -32 \\ \hline 7 \end{array}$$

I found my answer because I subtracted 32 from 39 and got 7, which means the pattern is add 7. I added 7 to 39 and got 46.

If the pattern in the table continues for a few more days, on what day will Carrie practice dancing for 53 minutes?

Answer Day 6

$$\begin{array}{r} 46 \\ + 7 \\ \hline 53 \end{array}$$

This response is complete and correct. The number of minutes and the number of days are correct, and the explanation clearly explains how the number of minutes is found.

Score Point 3

30

The table below shows the number of minutes Carrie practiced dancing on four different days.

CARRIE'S DANCE PRACTICE

Day	Minutes
Day 1	18
Day 2	25
Day 3	32
Day 4	39
Day 5	?

If the pattern in the table continues, how many minutes will Carrie practice dancing on Day 5?

Answer 46 minutes

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

BECAUSE ON DAY 1 CARRIE PRACTICED
FOR 18 MINUTES AND THE ^{NEXT} DAY CARRIE
PRACTICED FOR 25 MINUTES SO THE RULE IS
+7 BECAUSE $18 + 7 = 25$, AND $25 + 7 = 32$
AND $32 + 7 = 39$ AND $39 + 7 = 46$.

If the pattern in the table continues for a few more days, on what day will Carrie practice dancing for 53 minutes?

Answer Day 6

This response is complete and correct. The number of minutes and the number of days are correct, and the explanation clearly explains how the number of minutes is found.

Score Point 3

30

The table below shows the number of minutes Carrie practiced dancing on four different days.

CARRIE'S DANCE PRACTICE

Day	Minutes
Day 1	18
Day 2	25
Day 3	32
Day 4	39
Day 5	?

If the pattern in the table continues, how many minutes will Carrie practice dancing on Day 5?

Answer 46 minutes

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

I know because It adds 7 minutes everyday. So 7+18
is 25, 25+8=32, 32+7=39, 39+7=46!

If the pattern in the table continues for a few more days, on what day will Carrie practice dancing for 53 minutes?

Answer Day 6

This response is partially correct. The number of minutes and the number of days are correct; however, the explanation provides an incorrect mathematical statement.

Score Point 2

30

The table below shows the number of minutes Carrie practiced dancing on four different days.

CARRIE'S DANCE PRACTICE

Day	Minutes
Day 1	18
Day 2	25
Day 3	32
Day 4	39
Day 5	?

If the pattern in the table continues, how many minutes will Carrie practice dancing on Day 5?

Answer 46 minutes

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

each number was counting up by
7's so I did $39 + 7$ that = to
46 minutes. That is how I got my
answer.

If the pattern in the table continues for a few more days, on what day will Carrie practice dancing for 53 minutes?

Answer Day 7

This response is partially correct. The number of minutes and the explanation clearly explain how the number of minutes is found; however, an incorrect number of days is provided.

Score Point 2

30

The table below shows the number of minutes Carrie practiced dancing on four different days.

CARRIE'S DANCE PRACTICE

Day	Minutes
Day 1	18
Day 2	25
Day 3	32
Day 4	39
Day 5	?

If the pattern in the table continues, how many minutes will Carrie practice dancing on Day 5?

Answer 3 minutes

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

I found my answer by thinking in my head about
how much minutes she would be dancing for

If the pattern in the table continues for a few more days, on what day will Carrie practice dancing for 53 minutes?

Answer Day 6

This response demonstrates only a limited understanding of the mathematical concepts embodied in the task. The number of days is correct; however, the number of minutes is incorrect and a vague explanation is provided.

Score Point 1

30

The table below shows the number of minutes Carrie practiced dancing on four different days.

CARRIE'S DANCE PRACTICE

Day	Minutes
Day 1	18
Day 2	25
Day 3	32
Day 4	39
Day 5	?

If the pattern in the table continues, how many minutes will Carrie practice dancing on Day 5?

Answer 15 minutes

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

you've nited to core + the
an certis for you could
get you ransert.

If the pattern in the table continues for a few more days, on what day will Carrie practice dancing for 53 minutes?

Answer Day 32

This response is incorrect.

Score Point 0



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Mathematics Test

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2009 Practice Set

30

The table below shows the number of minutes Carrie practiced dancing on four different days.

**CARRIE'S DANCE
PRACTICE**

Day	Minutes
Day 1	18
Day 2	25
Day 3	32
Day 4	39
Day 5	?

If the pattern in the table continues, how many minutes will Carrie practice dancing on Day 5?

Answer 46 minutes

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

I saw that $18 - 25$ is 7 and
I saw that in every other
one so I just added 7 to
39 and got 46

If the pattern in the table continues for a few more days, on what day will Carrie practice dancing for 53 minutes?

Answer Day 6

30

The table below shows the number of minutes Carrie practiced dancing on four different days.

CARRIE'S DANCE PRACTICE

Day	Minutes
Day 1	18
Day 2	25
Day 3	32
Day 4	39
Day 5	?

If the pattern in the table continues, how many minutes will Carrie practice dancing on Day 5?

Answer 64 minutes

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

I know...

If the pattern in the table continues for a few more days, on what day will Carrie practice dancing for 53 minutes?

Answer Day 67

30

The table below shows the number of minutes Carrie practiced dancing on four different days.

CARRIE'S DANCE PRACTICE

Day	Minutes
Day 1	18
Day 2	25
Day 3	32
Day 4	39
Day 5	?

If the pattern in the table continues, how many minutes will Carrie practice dancing on Day 5?

Answer 46 minutes

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

I found my answer because,
When I counted the distance from
18 to 25 and 25 to 32 and 32 to 39
I realized each number was 7 numbers
apart from each other so I added
7 to 39 and got 46 minutes.

If the pattern in the table continues for a few more days, on what day will Carrie practice dancing for 53 minutes?

Answer Day 6

30

The table below shows the number of minutes Carrie practiced dancing on four different days.

**CARRIE'S DANCE
PRACTICE**

Day	Minutes
Day 1	18
Day 2	25
Day 3	32
Day 4	39
Day 5	?

If the pattern in the table continues, how many minutes will Carrie practice dancing on Day 5?

Answer 7 minutes

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

I found my answer by
doing $25 - 18 = 7$.

If the pattern in the table continues for a few more days, on what day will Carrie practice dancing for 53 minutes?

Answer Day 11

30

The table below shows the number of minutes Carrie practiced dancing on four different days.

**CARRIE'S DANCE
PRACTICE**

Day	Minutes
Day 1	18
Day 2	25
Day 3	32
Day 4	39
Day 5	?

If the pattern in the table continues, how many minutes will Carrie practice dancing on Day 5?

Answer 46 minutes

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

I counted and it was add 7.

If the pattern in the table continues for a few more days, on what day will Carrie practice dancing for 53 minutes?

Answer Day 6

3rd 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	(0-3)	
PS 22	(0-3)	
PS 23	(0-3)	
PS 24	(0-3)	
PS 25	(0-3)	
PS 26	(0-3)	
PS 27	(0-3)	
PS 28	(0-3)	
PS 29	(0-3)	
PS 30	(0-3)	