



New York State Testing Program

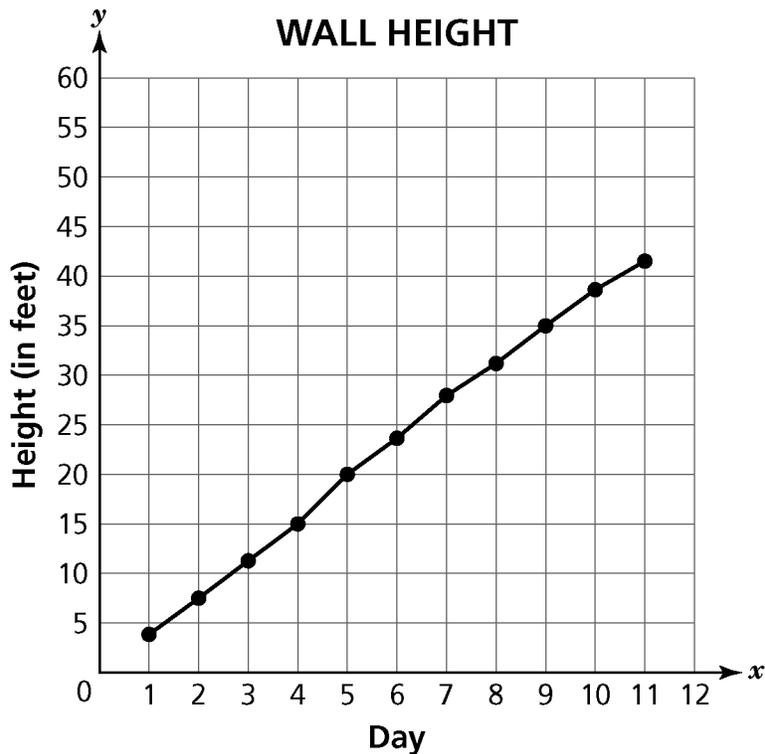
Mathematics Test

Grade **6**

2009 Scoring Guide

34

Rudy is building a wall beside his garden. He records the height of the wall at the end of each day during an 11-day period. His data is shown in the line graph below.



According to the data in the graph, what was the height of the wall at the end of Day 4?

Answer _____ feet

Based on the data in the graph, predict the height of the wall at the end of Day 12.

Prediction _____ feet

On the lines below, explain how you determined your prediction.

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QUESTION 34

STRAND 5: STATISTICS AND PROBABILITY

Complete and Correct Response:

- 15 (feet)

AND

- A range of numbers between 44 (feet) and 48 (feet)

AND

- The height of the wall at the end of Day 11 is 42 feet. The height of the wall increases by approximately 3–5 feet each day, so the height of the wall at the end of Day 12 is 46 feet.

$$42 + 4 = 46$$

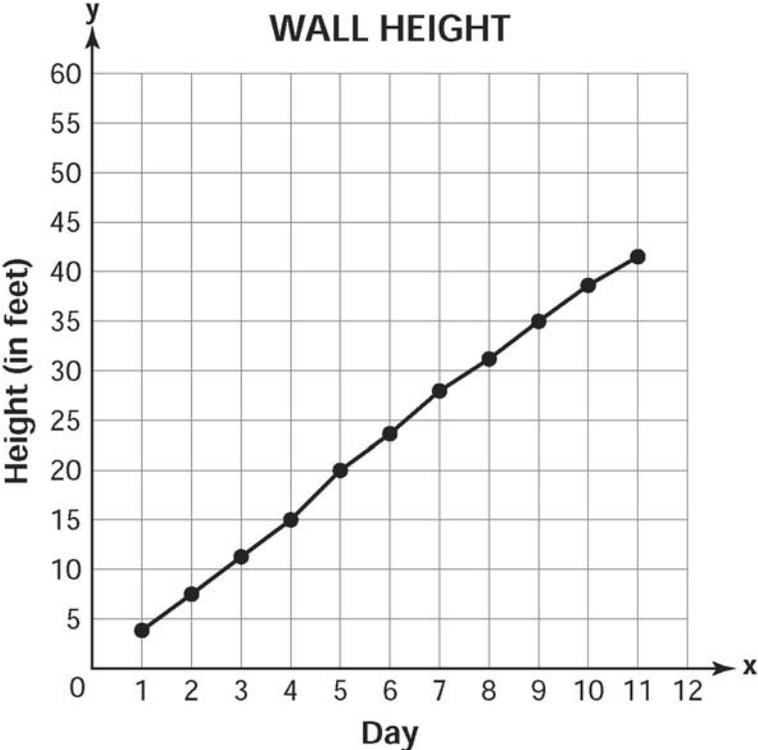
OR other valid response

Score Points:

Apply 3-point holistic rubric.

34

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According to the data in the graph, what was the height of the wall at the end of Day 4?

Answer 15 feet

Based on the data in the graph, predict the height of the wall at the end of Day 12.

Prediction 46 feet

On the lines below, explain how you determined your prediction.

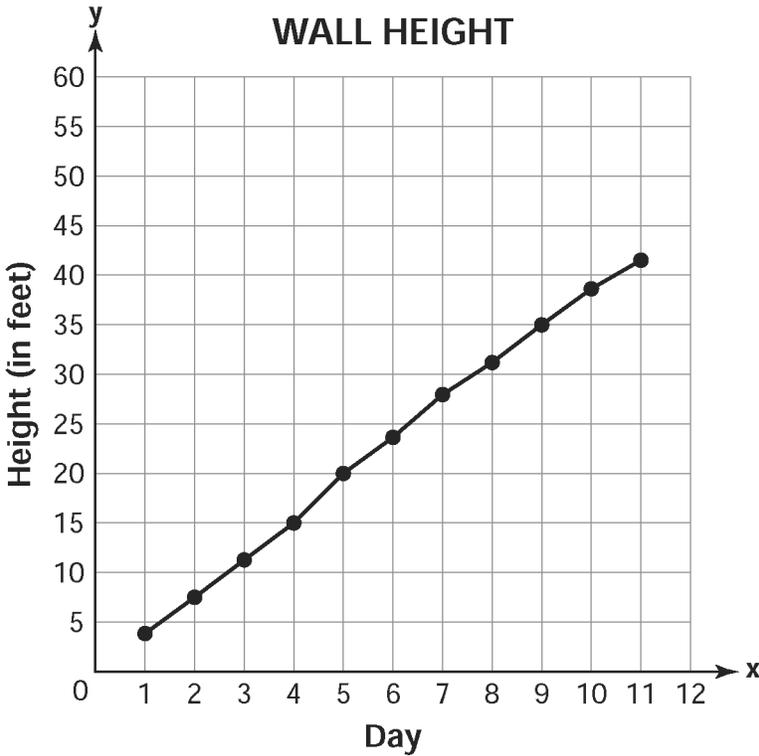
Every day Rudy's wall is built 3 to 4 feet bigger so at Day 11 it looked as if it was 42 feet long, $42 + 4 = 46$ so I put 46 as my answer. (This is my prediction)

This response is complete and correct.

Score Point 3

34

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According to the data in the graph, what was the height of the wall at the end of Day 4?

Answer 15 feet

Based on the data in the graph, predict the height of the wall at the end of Day 12.

Prediction 46 feet

On the lines below, explain how you determined your prediction.

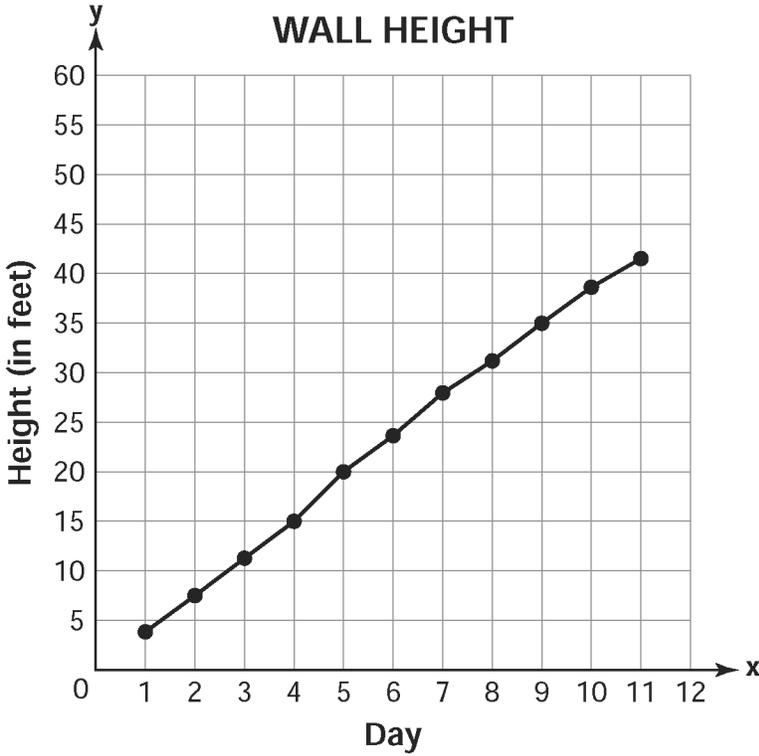
I added 4 to the
11th-day period height.

This response is complete and correct.

Score Point 3

34

Rudy is building a wall beside his garden. He records the height of the wall at the end of each day during an 11-day period. His data is shown in the line graph below.



According to the data in the graph, what was the height of the wall at the end of Day 4?

Answer 15 feet

Based on the data in the graph, predict the height of the wall at the end of Day 12.

Prediction 45 feet

On the lines below, explain how you determined your prediction.

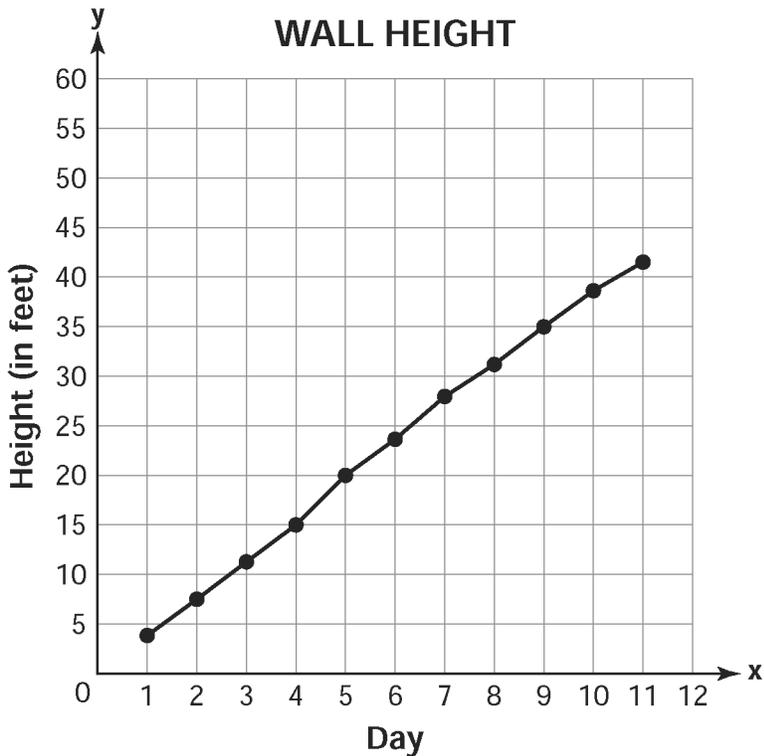
I looked closely and saw that there
was a recurring pattern, and I was able
to determine it would be 45 feet
at the end of day 12.

This response is partially correct. Two correct answers are provided; however, the explanation incorrectly refers to “a [recurring] pattern.”

Score Point 2

34

Rudy is building a wall beside his garden. He records the height of the wall at the end of each day during an 11-day period. His data is shown in the line graph below.



According to the data in the graph, what was the height of the wall at the end of Day 4?

Answer 20 feet

Based on the data in the graph, predict the height of the wall at the end of Day 12.

Prediction 45 feet

On the lines below, explain how you determined your prediction.

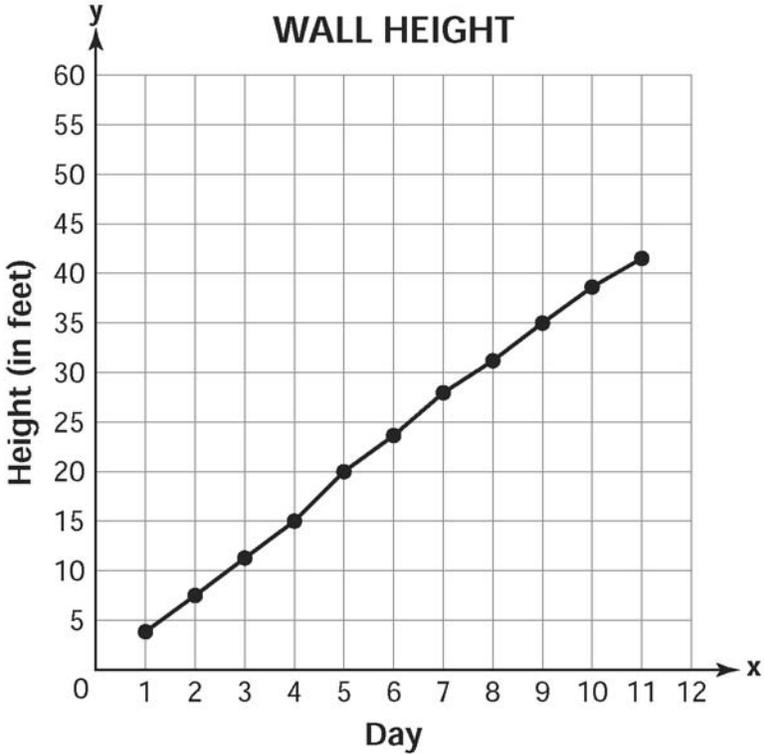
I got this answer by following the pattern
in the line graph and I saw it was adding by
4's, so when the 11th day was 41 feet
I added 4.

This response demonstrates only a limited understanding of the mathematical concepts embodied in the task. A correct prediction of 45 feet is made; however, the explanation describes a pattern of adding by four which is incorrect. The first answer is also incorrect.

Score Point 1

34

Rudy is building a wall beside his garden. He records the height of the wall at the end of each day during an 11-day period. His data is shown in the line graph below.



According to the data in the graph, what was the height of the wall at the end of Day 4?

Answer 60 feet

Based on the data in the graph, predict the height of the wall at the end of Day 12.

Prediction 60 feet

On the lines below, explain how you determined your prediction.

Because I saw it

This response is incorrect.

Score Point 0



New York State Testing Program

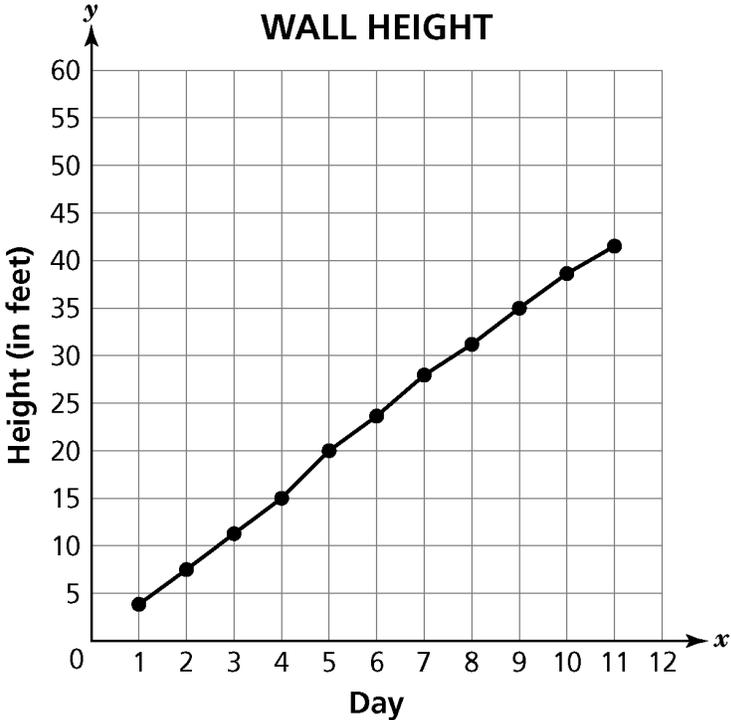
Mathematics Test

Grade **6**

2009 Practice Set

34

Rudy is building a wall beside his garden. He records the height of the wall at the end of each day during an 11-day period. His data is shown in the line graph below.



According to the data in the graph, what was the height of the wall at the end of Day 4?

Answer 15 in feet

Based on the data in the graph, predict the height of the wall at the end of Day 12.

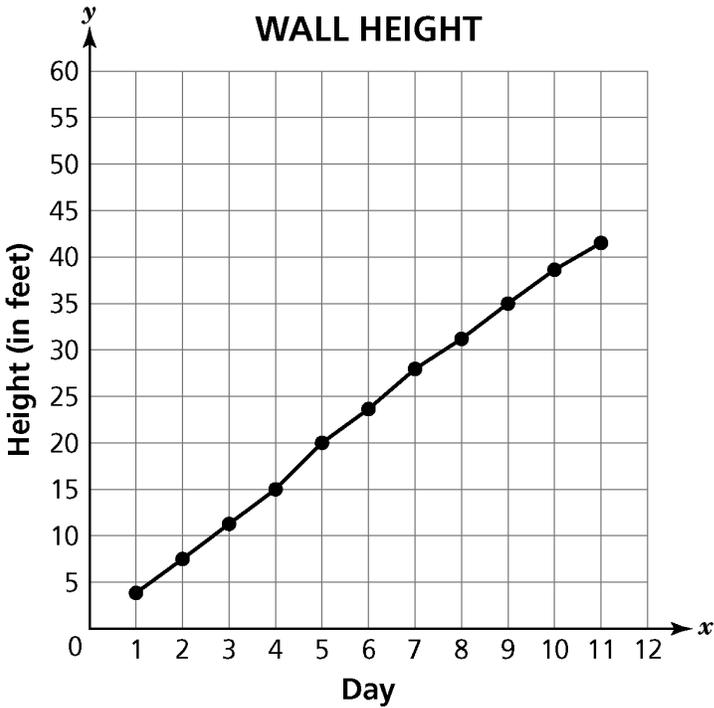
Prediction 45 in. feet

On the lines below, explain how you determined your prediction.

I determined my prediction by studying the graph and noticing that the data increases.

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According to the data in the graph, what was the height of the wall at the end of Day 4?

Answer 15 feet

Based on the data in the graph, predict the height of the wall at the end of Day 12.

Prediction 5 feet

On the lines below, explain how you determined your prediction.

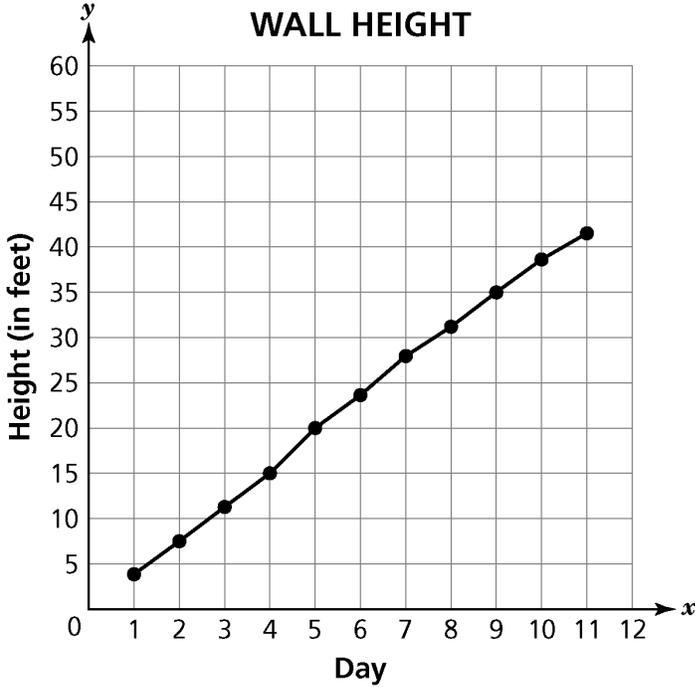
IS was 5 feet because it adds by
7 = 12

7...
+5

12 foot
cu

34

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According to the data in the graph, what was the height of the wall at the end of Day 4?

Answer 15 feet

Based on the data in the graph, predict the height of the wall at the end of Day 12.

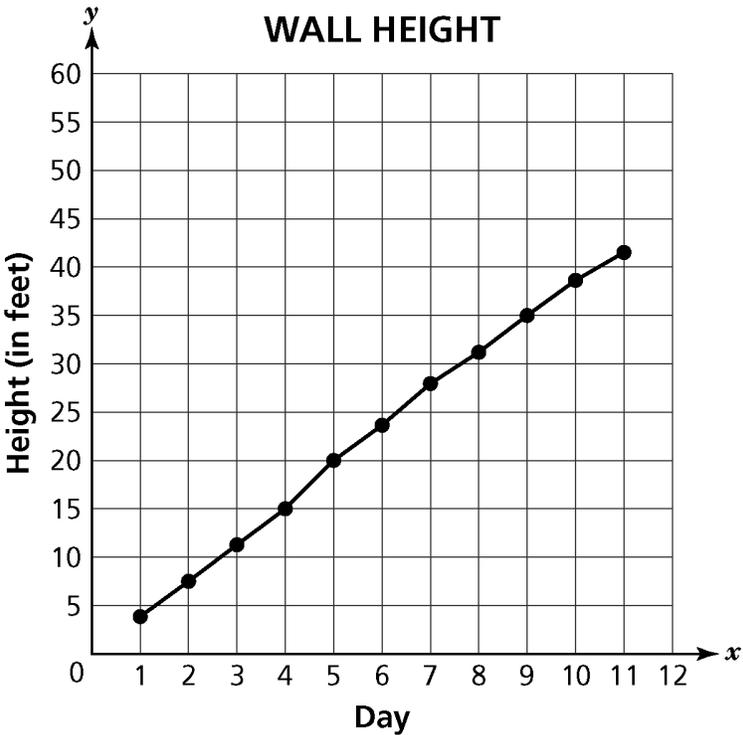
Prediction 46 feet

On the lines below, explain how you determined your prediction.

I determined my prediction by finding the order of the increasing line. I saw that first 3 numbers the line goes up by 4, and once by 5's. For example 4, 8, 12, 15.

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According to the data in the graph, what was the height of the wall at the end of Day 4?

Answer 20 feet

Based on the data in the graph, predict the height of the wall at the end of Day 12.

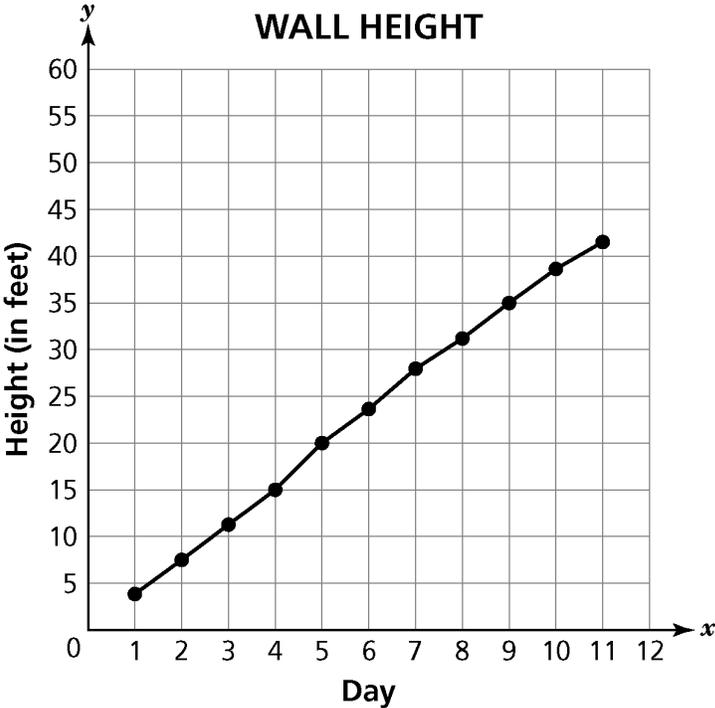
Prediction 45 feet

On the lines below, explain how you determined your prediction.

I went to the end and Day 12 was 45 feet.

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According to the data in the graph, what was the height of the wall at the end of Day 4?

Answer 20 feet

Based on the data in the graph, predict the height of the wall at the end of Day 12.

Prediction 12 feet

On the lines below, explain how you determined your prediction.

I made my prediction because I saw
it increased by about 3 feet of the
height everyday.

6th 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	(0-3)	
PS 32	(0-3)	
PS 33	(0-3)	
PS 34	(0-3)	
PS 35	(0-3)	
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	(0-3)	
PS 47	(0-3)	
PS 48	(0-3)	
PS 49	(0-3)	
PS 50	(0-3)	