



New York State Testing Program

Mathematics Test

Grade **6**

2009 Scoring Guide

29

What is the value of the expression $6m + 3^3$ when m equals 7?

Show your work.

Answer _____

QUESTION 29

STRAND 2: ALGEBRA

Complete and Correct Response:

- $6m + 3^3$
 $6(7) + 27$
 $42 + 27$
 $42 + 27 = 69$

OR other valid process

AND

- 69

Score Points:

Apply 2-point holistic rubric.

29

What is the value of the expression $6m + 3^3$ when m equals 7?

Show your work.

$$6m + 3^3$$

$$6 \times 7 + 3 \times 3 \times 3$$

$$9 \times 3 = 27$$

$$6 \times 7 = 42$$

Answer 69

$$\begin{array}{r} 42 \\ + 27 \\ \hline 69 \end{array}$$

This response is complete and correct.

Score Point 2

29What is the value of the expression $6m + 3^3$ when m equals 7?*Show your work.*

$$6 \times 7 = 42$$

$$3 \times 3 = 9 \times 3 = 27$$

$$\begin{array}{r} 27 \\ +42 \\ \hline 69 \end{array}$$

Answer 69

This response is only partially correct. A sound mathematical procedure for evaluating the expression is provided; however, the work shown contains an incorrect mathematical statement.

Score Point 1

29

What is the value of the expression $6m + 3^3$ when m equals 7?

Show your work.

$$6m + 3^3$$

$$6(7) + 3^3$$

$$6(7) + 9$$

$$42 + 9$$

$$51$$

$$\begin{array}{r} 42 \\ + 9 \\ \hline 51 \end{array}$$

$$6 \times 7 = 42$$

$$6m + 3^3$$

$$6(7) + 3^3$$

$$(42) + 9$$

$$51$$

Answer 51

This response is only partially correct. A sound mathematical procedure for evaluating the expression and the correct substitution are demonstrated; however, the exponent is squared and not cubed, resulting in an incorrect answer.

Score Point 1

29

What is the value of the expression $6m + 3^3$ when m equals 7?

$$\begin{array}{r} 9 \\ + 9 \\ \hline 18 \end{array}$$

Show your work.

$$3^3 = 3 \times 3 \times 3 = 27$$

Answer 27

This response is only partially correct. A sound mathematical procedure for evaluating the second part of the expression is correct; however, the first part of the expression is not completed.

Score Point 1

29What is the value of the expression $6m + 3^3$ when m equals 7?*Show your work.*

$$6m + 3^3 + 7$$
$$6 \times 3 \times 7$$

Answer 28

This response is incorrect.

Score Point 0



New York State Testing Program

Mathematics Test

Grade **6**

2009 Practice Set

29

What is the value of the expression $6m + 3^3$ when m equals 7?

Show your work.

$$6m + 3^3$$
$$6 \times 7 = 48 + 3 \times 3 \times 3 = 27$$
$$48 + 27 =$$
$$75$$

$$\begin{array}{r} 48 \\ + 27 \\ \hline 75 \end{array}$$

Answer 75

29

What is the value of the expression $6m + 3^3$ when m equals 7?

Show your work.

$$\begin{array}{l} 6 \cdot 7 + 3^3 \\ 42 + 27 \end{array}$$

$$\begin{array}{r} 3 \cdot 3 \cdot 3 \\ 3 \cdot 3 = 9 \\ \hline 3 \cdot 9 \\ \hline 27 \end{array}$$

Answer 69

$$\begin{array}{r} 42 \\ + 27 \\ \hline 69 \end{array}$$

29

What is the value of the expression $6m + 3^3$ when m equals 7?

Show your work.

Answer 95

$$3 \times 3 \times 3$$

$$\begin{array}{r} 9 \times 3 \\ \checkmark \\ 28 \end{array}$$

9

$$6m^7$$

$$67 + 28 =$$

$$\begin{array}{r} 67 \\ 28 \\ \hline 95 \end{array}$$



$$\begin{array}{r} 1 \\ 6 \overline{) 7} \\ \underline{6} \\ 10 \end{array}$$

29

What is the value of the expression $6m + 3^3$ when m equals 7?

Show your work.

$$\frac{21}{9}$$

$$\begin{array}{l} 3 \times 3 \times 3 \\ \swarrow \quad \searrow \\ 9 \times 3 = 27 \end{array}$$

Answer 69

$$\begin{array}{r} 27 \\ + 42 \\ \hline 69 \end{array}$$

29

What is the value of the expression $6m + 3^3$ when m equals 7?

Show your work.

$$\begin{array}{r} 6 \quad 47 \quad 3 \\ \times 7 \quad + \quad 27 \quad \times 3 \\ \hline 42 \quad \quad 81 \\ \hline 114 \end{array}$$

Answer 114

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)	
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PS 48	(0-3)	
PS 49	(0-3)	
PS 50	(0-3)	