



**PAWS
Mathematics
Grade 7**

**Released Items
With Data**

2011

Copyright © **2012** by the Wyoming Department of Education.

All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the Wyoming Department of Education.

Pearson and the *Pearson* logo are trademarks, in the U.S. and/or other countries, of Pearson Education, Inc. or its affiliate(s).

Portions of this work were previously published.

Printed in the United States of America.

3340013

00 What is the value of the expression below?

$$5 + 8 + 5 \cdot 9$$

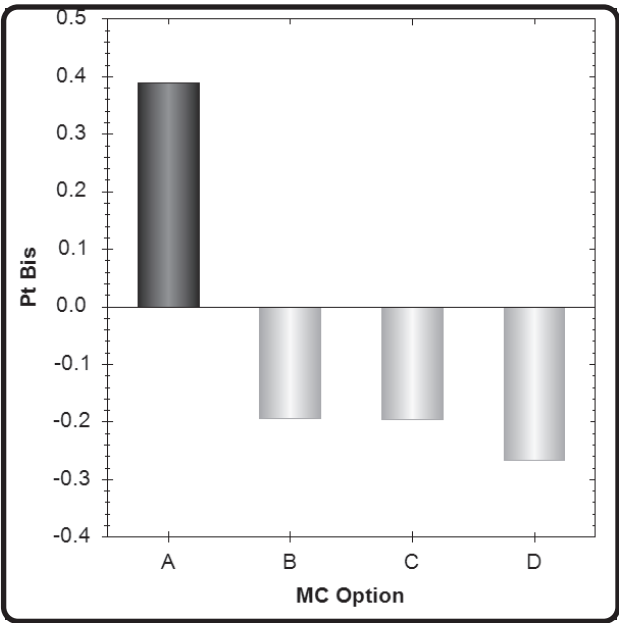
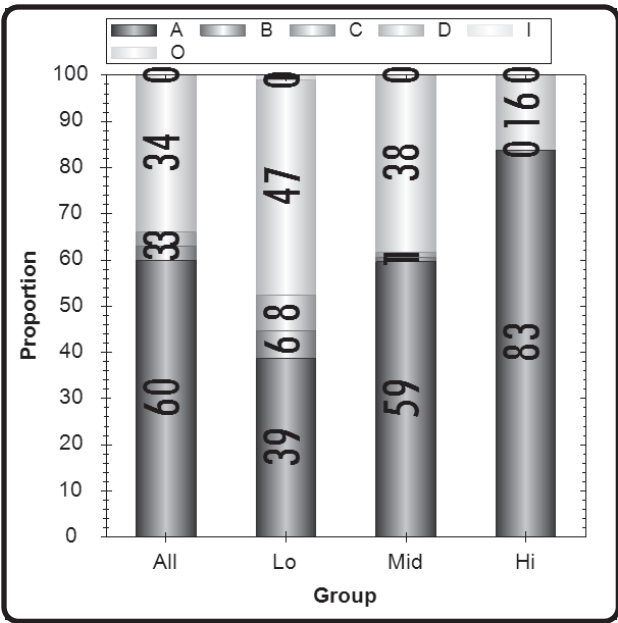
- Ⓐ 58
- Ⓑ 92
- Ⓒ 117
- Ⓓ 162

Grade 7	Math	CID 3340013
Item # 6	OP11	7N.3.b

Type	Max Points	Correct Answer	N Count	Item Mean	Discrimination
Multiple Choice	1	A	6369	0.607	0.390

	A	B	C	D	Inv	Omit
All	60	3	3	34	0	0
Low Scorers	39	6	8	47	0	1
Middle Scorers	59	1	1	38	0	0
High Scorers	83	0	0	16	0	0

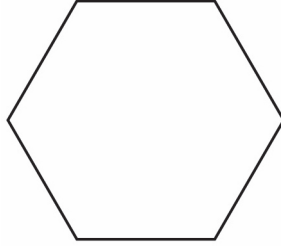
A	B	C	D
0.390	-0.195	-0.196	-0.267



Notes:

3337216

00 Ashlynn drew the regular polygon below.



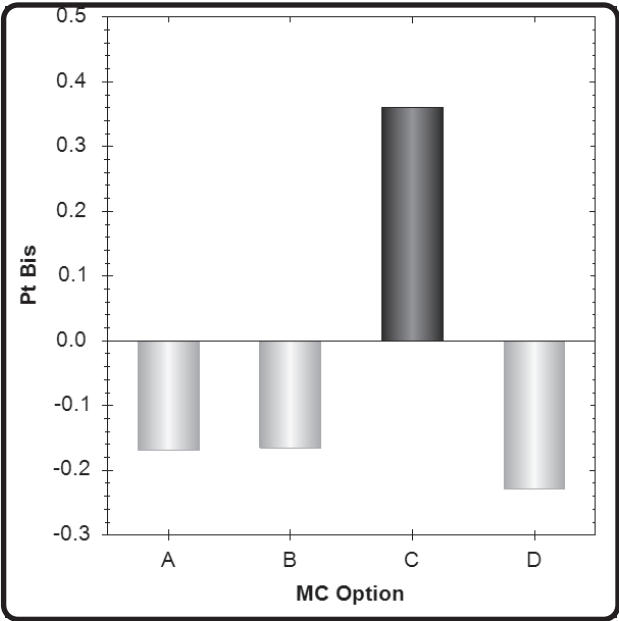
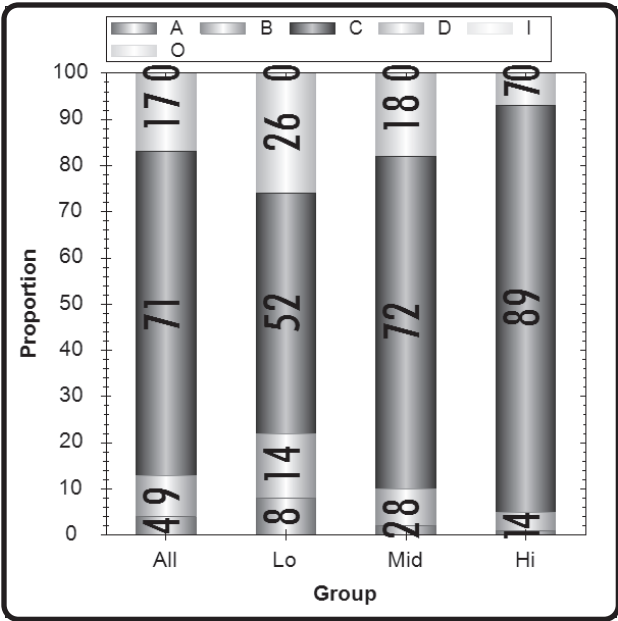
Which statement is not true about the regular polygon Ashlynn drew?

- Ⓐ All the sides are equal in length.
- Ⓑ All the interior angles are equal in measure.
- Ⓒ The adjacent sides are perpendicular.
- Ⓓ The opposite sides within the polygon are parallel.

Type	Max Points	Correct Answer	N Count	Item Mean	Discrimination
Multiple Choice	1	C	6369	0.710	0.360

	A	B	C	D	Inv	Omit
All	4	9	71	17	0	0
Low Scorers	8	14	52	26	0	0
Middle Scorers	2	8	72	18	0	0
High Scorers	1	4	89	7	0	0

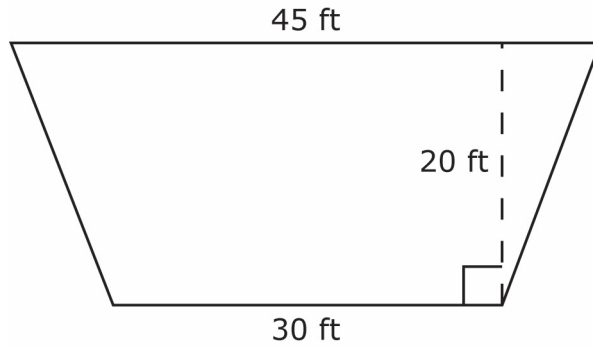
MC Item Option Discriminations			
A	B	C	D
-0.170	-0.165	0.360	-0.229



Notes:

3339554

00 Jenny's Backyard Grill is an outdoor restaurant with a dining room floor that is shaped like the trapezoid shown.



What is the area in square feet of the dining room floor?

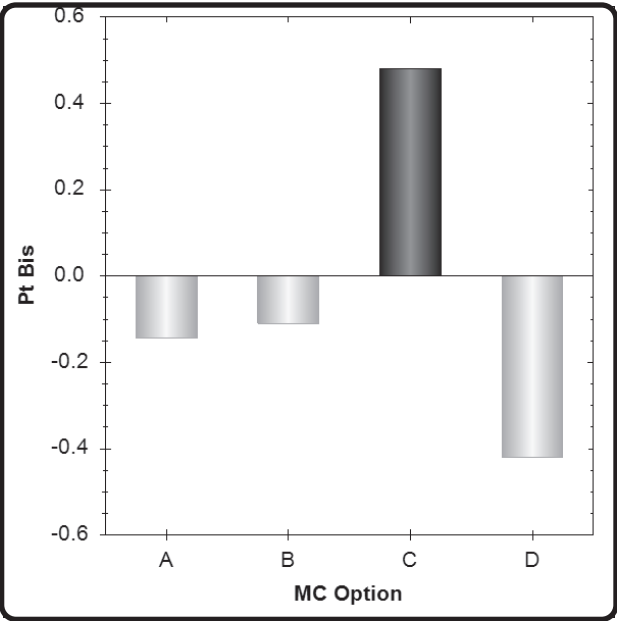
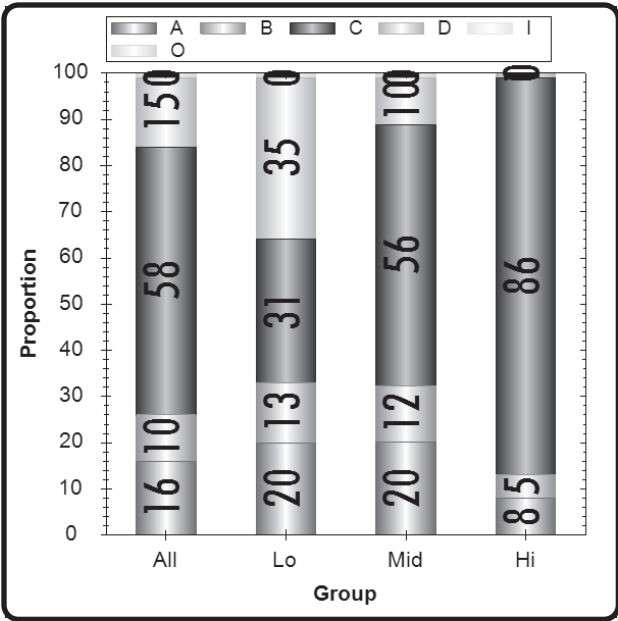
- Ⓐ 1,500 sq ft
- Ⓑ 1,000 sq ft
- Ⓒ 750 sq ft
- Ⓓ 95 sq ft

Grade 7 Item # 46	Math OP11	CID 3339554 7M.2.b
----------------------	--------------	-----------------------

Type	Max Points	Correct Answer	N Count	Item Mean	Discrimination
Multiple Choice	1	C	6369	0.586	0.481

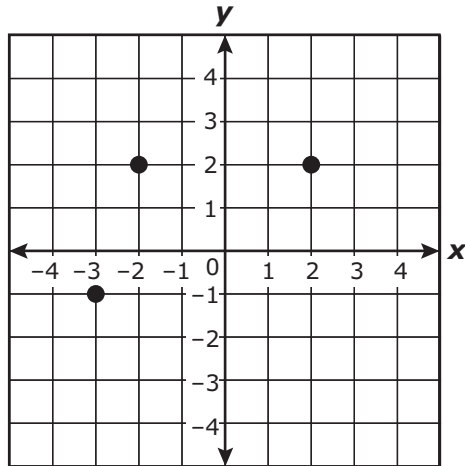
	A	B	C	D	Inv	Omit
All	16	10	58	15	0	1
Low Scorers	20	13	31	35	0	1
Middle Scorers	20	12	56	10	0	1
High Scorers	8	5	86	1	0	0

MC Item Option Discriminations			
A	B	C	D
-0.144	-0.110	0.481	-0.420



Notes:

- 00** Three vertices of a parallelogram have been plotted on the grid below.



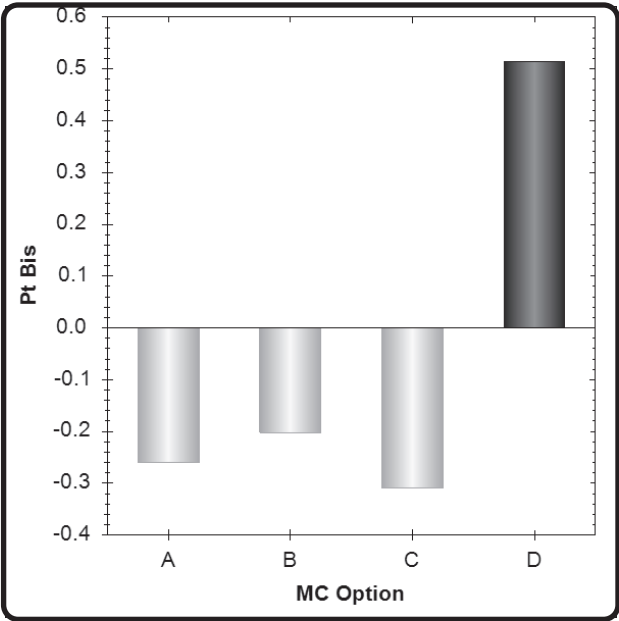
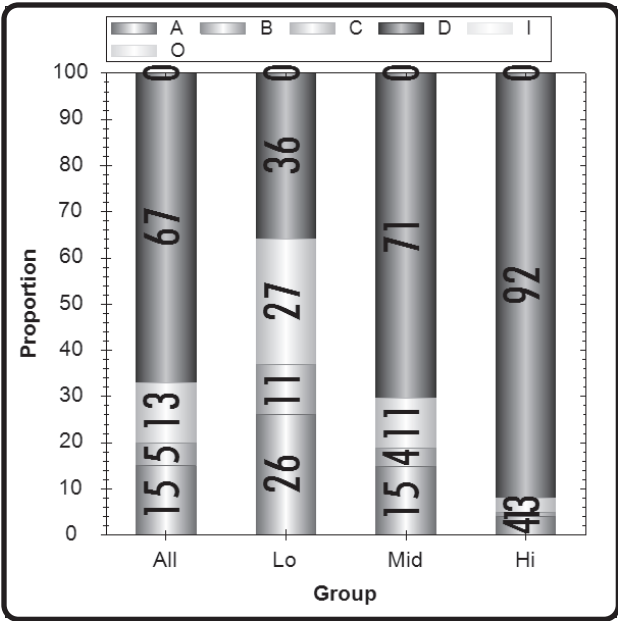
Which of these could be the coordinates of the fourth vertex of the parallelogram?

- (A) $(-3, -1)$
- (B) $(-2, -1)$
- (C) $(-2, 2)$
- (D) $(1, -1)$

Type	Max Points	Correct Answer	N Count	Item Mean	Discrimination
Multiple Choice	1	D	6369	0.668	0.514

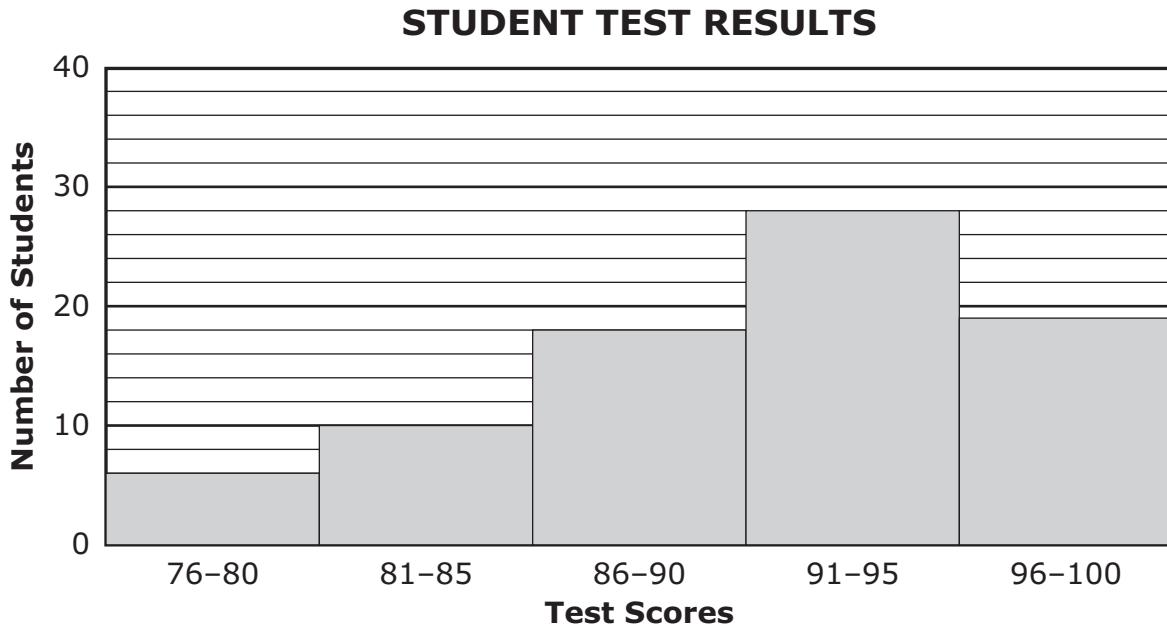
	A	B	C	D	Inv	Omit
All	15	5	13	67	0	0
Low Scorers	26	11	27	36	0	0
Middle Scorers	15	4	11	71	0	0
High Scorers	4	1	3	92	0	0

MC Item Option Discriminations			
A	B	C	D
-0.260	-0.202	-0.309	0.514



Notes:

- 00** The graph shown displays the number of 7th-grade students at a middle school who received test scores within specific ranges.



- Part A.** What was the total number of student test scores recorded in the graph? Write your answer in the space provided.

Total Number of Student Test Scores Recorded in the Graph: _____

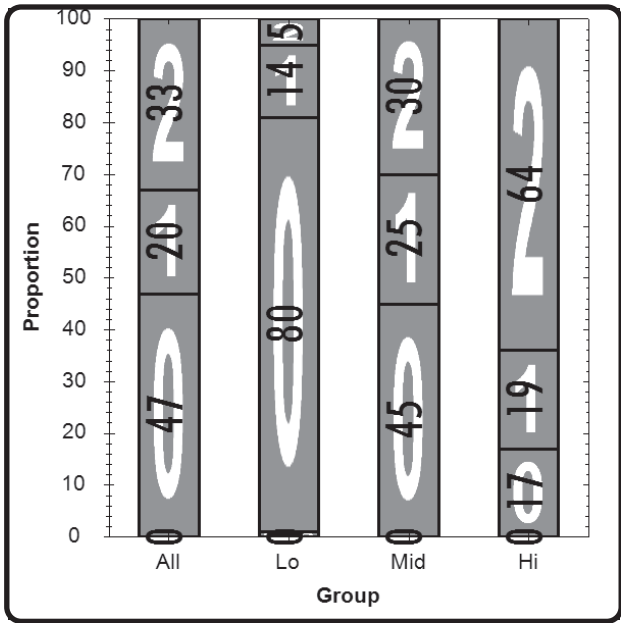
- Part B.** According to the graph, how many students scored greater than 90?

Number of Students Who Scored Greater Than 90: _____

Grade 7	Math	CID 10000274561
Item # 67	OP11	7D.1.b

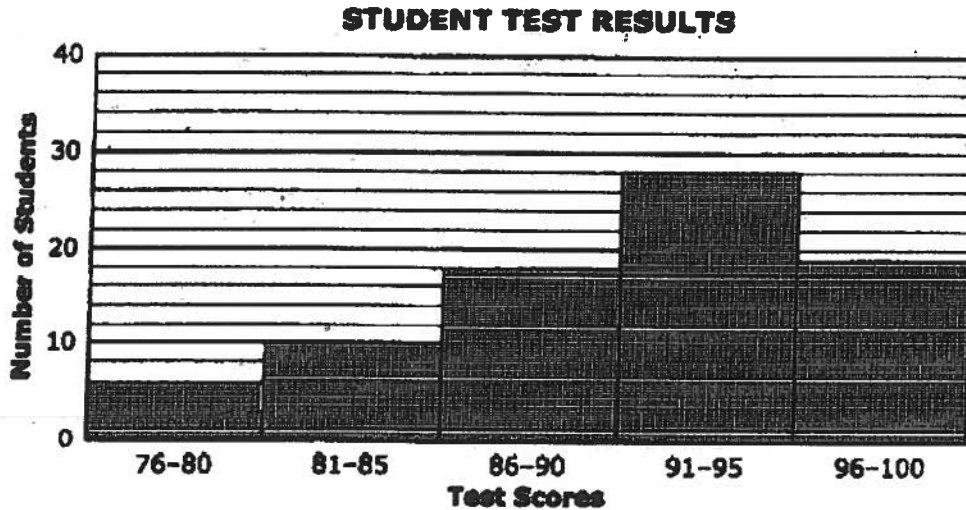
Type	Max Points	N Count	Item Mean	Discrimination
Short Response	2	6369	0.861	0.599

	0	1	2	Inv	Omit
All	47	20	33	0	0
Low Scorers	80	14	5	0	1
Middle Scorers	45	25	30	0	0
High Scorers	17	19	64	0	0



Notes:

- 67 The graph shown displays the number of 7th-grade students at a middle school who received test scores within specific ranges.



Part A. What was the total number of student test scores recorded in the graph? Write your answer in the space provided.

76-80 81-85 86-90 91-95 96-100
 6 kids 10 kids 18 kids 28 kids 19 kids

Total Number of Student Test Scores Recorded in the Graph: **81**

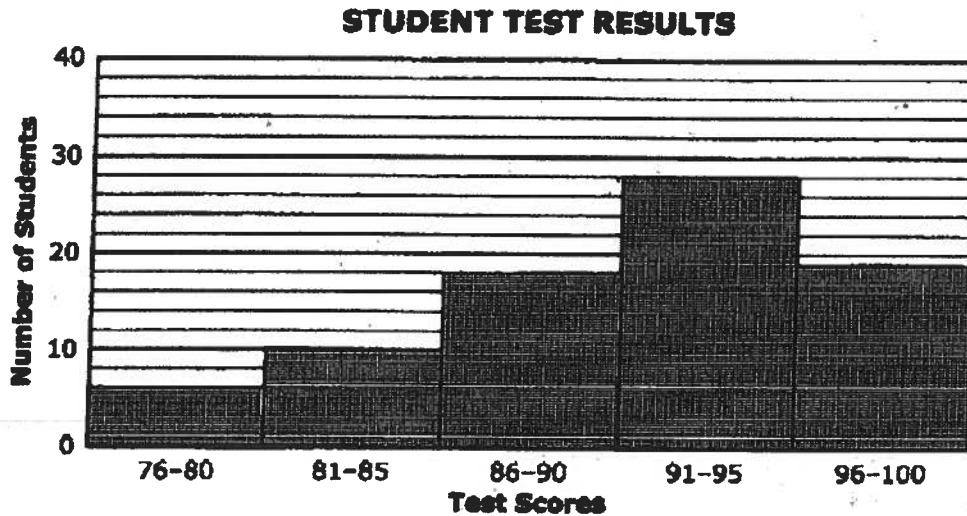
Part B. According to the graph, how many students scored greater than 90?

91-95 96-100
 28 kids + 19 kids = 47 kids

Number of Students Who Scored Greater Than 90: **47**

Score point 2 This response is complete and accurate. In Part A, the student correctly identifies the correct total number of test scores (81), and in Part B the student correctly identifies the number of test scores greater than 90 (47). Although it is not required, the evidence of work shown involves sound reasoning and supports the solution.

67 The graph shown displays the number of 7th-grade students at a middle school who received test scores within specific ranges.



Part A. What was the total number of student test scores recorded in the graph? Write your answer in the space provided.

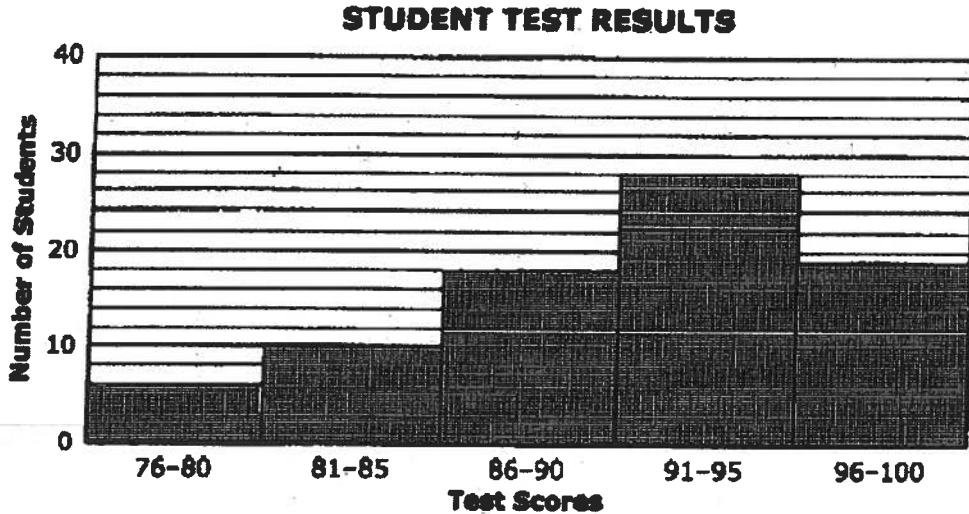
Total Number of Student Test Scores Recorded in the Graph: 81

Part B. According to the graph, how many students scored greater than 90?

Number of Students Who Scored Greater Than 90: 28

Score point 1 This response is inaccurate. The student correctly identifies the total number of test scores in Part A (81). The answer in Part B (28) is incorrect because the student did not include the students in the 96-100 range.

67 The graph shown displays the number of 7th-grade students at a middle school who received test scores within specific ranges.



Part A. What was the total number of student test scores recorded in the graph? Write your answer in the space provided.

Total Number of Student Test Scores Recorded in the Graph: **80**

Part B. According to the graph, how many students scored greater than 90?

Number of Students Who Scored Greater Than 90: **46**

Score point 0 This response shows very little understanding. In both Parts A and B the student's answers (80 and 46) are close to the actual numbers. However, although no work is required, without evidence of work it is impossible to determine if the student made simple calculation errors which would not detract from the demonstration of understanding or if the student misread data on the graph.

