PAWS
Mathematics
Grade 7

Released Items
With Data

2009

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3508879

Hardware stores have many different lengths of nails. Which of the following nail lengths is greatest?

A. $\frac{5}{8}$ inch

B. $\frac{1}{4}$ inch

C. $\frac{7}{16}$ inch

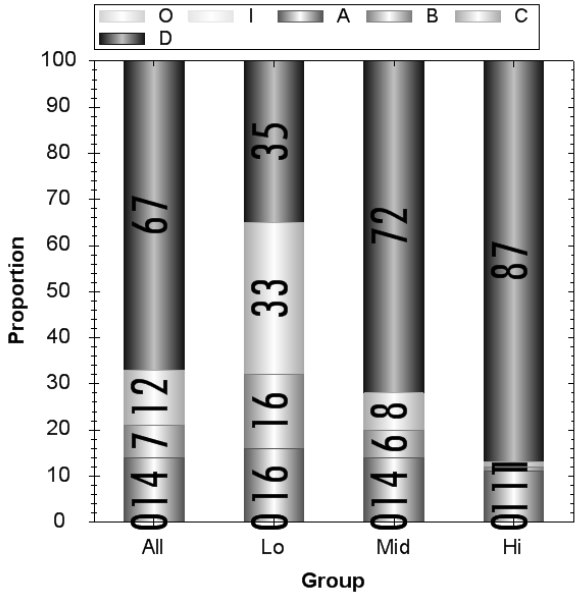
D. $\frac{2}{3}$ inch

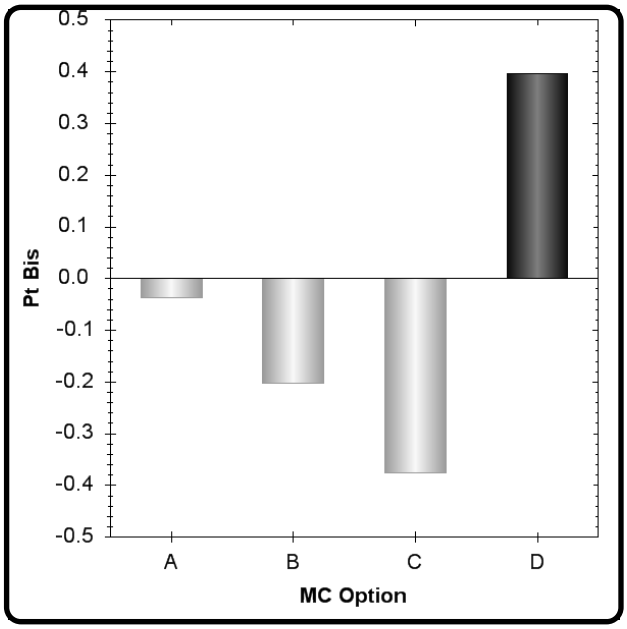
Grade 7	Math	CID 3508879
Item # 1		Administration OP09
	N2a	

Type	Max Points	Correct Answer	N Count	Item Mean	Discrimination
Multiple Choice	1	D	6398	0.671	0.397

	A	B	C	D	Omit	Invalid
All	14	7	12	67	0	0
Low Scorers	16	16	33	35	0	0
Middle Scorers	14	6	8	72	0	0
High Scorers	11	1	1	87	0	0

MC Item Option Discriminations			
A	B	C	D
-0.037	-0.203	-0.376	0.397





Notes:

Non SPED students may perform better on this item as compared to SPED students. (C)

3415025

What is the value of *x* in the equation shown below?

$$\frac{x}{4} = 16$$

A. 4

B. 12

C. 20

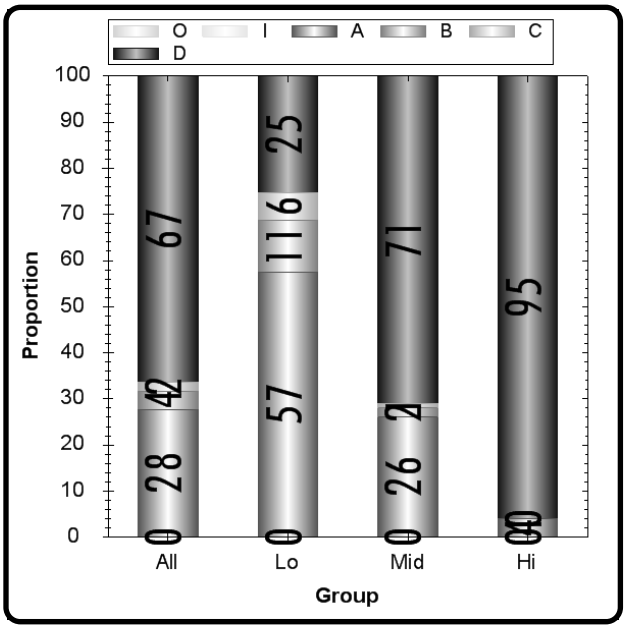
D. 64

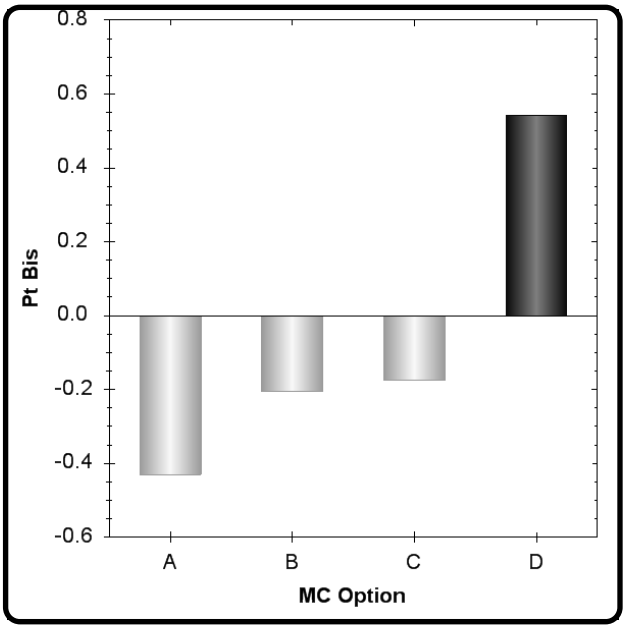
Grade 7	Math	CID 3415025
Item # 2		Administration OP09
	A1a	

Type	Max Points	Correct Answer	N Count	Item Mean	Discrimination
Multiple Choice	1	D	6398	0.666	0.542

	A	B	C	D	Omit	Invalid
All	28	4	2	67	0	0
Low Scorers	57	11	6	25	0	0
Middle Scorers	26	2	1	71	0	0
High Scorers	4	0	0	95	0	0

MC Item Option Discriminations			
A	B	C	D
-0.430	-0.205	-0.175	0.542

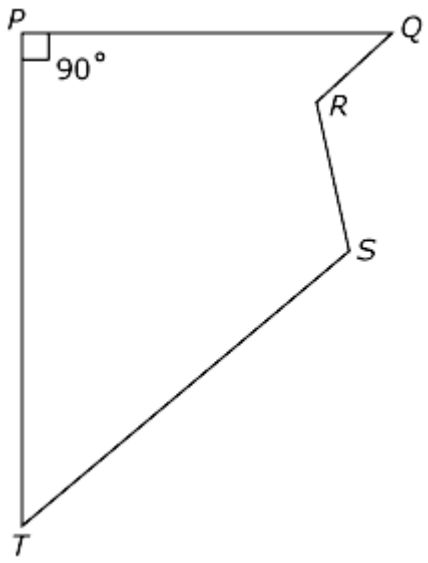




Notes:

3340096

Polygon *PQRST* is shown.



Which of the following <u>must</u> be true?

A. Segments *TS* and *QR* are parallel.

B. Segments *RS* and *PT* are parallel.

C. Segments *ST* and *RS* are perpendicular.

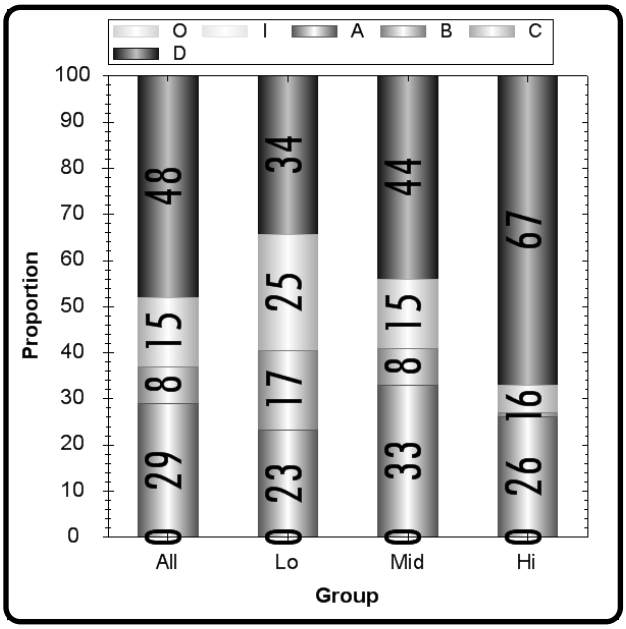
D. Segments *PT* and *PQ* are perpendicular.

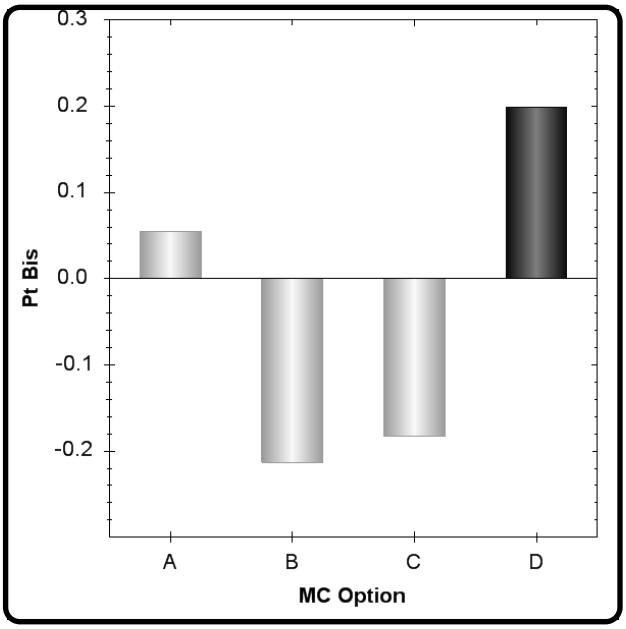
Grade 7	Math	CID 3340096
Item # 2		Administration OP09
	G1a	

Type	Max Points	Correct Answer	N Count	Item Mean	Discrimination
Multiple Choice	1	D	6398	0.475	0.199

	A	B	C	D	Omit	Invalid
All	29	8	15	48	0	0
Low Scorers	23	17	25	34	0	0
Middle Scorers	33	8	15	44	0	0
High Scorers	26	1	6	67	0	0

MC Item Option Discriminations			
A	B	C	D
0.055	-0.213	-0.183	0.199





Notes:

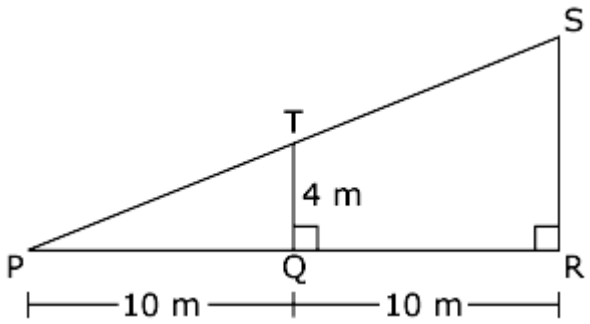
Non LEP students may perform better on this item as compared to LEP students. (B)

Low discrimination. Check item and key (if MC item) for ambiguity.

Option A has positive discrimination. Check option for ambiguity/correctness.

100000030552

Triangle *PTQ* is similar to triangle *PSR*.



What is the length of $\overline{SR}$?

A. 6 m

B. 8 m

C. 10 m

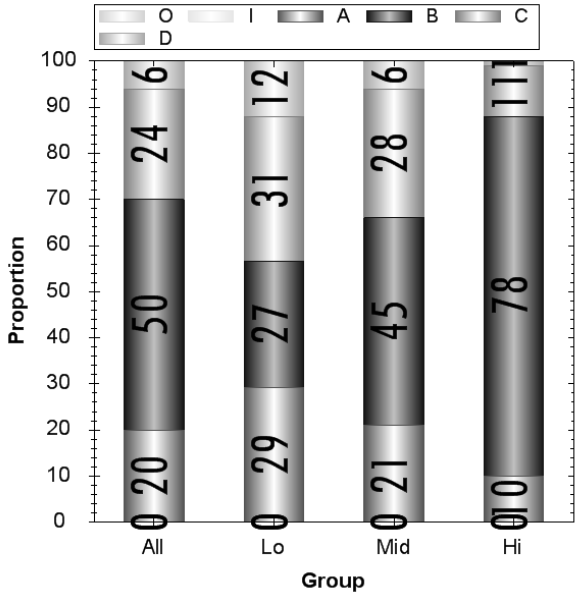
D. 16 m

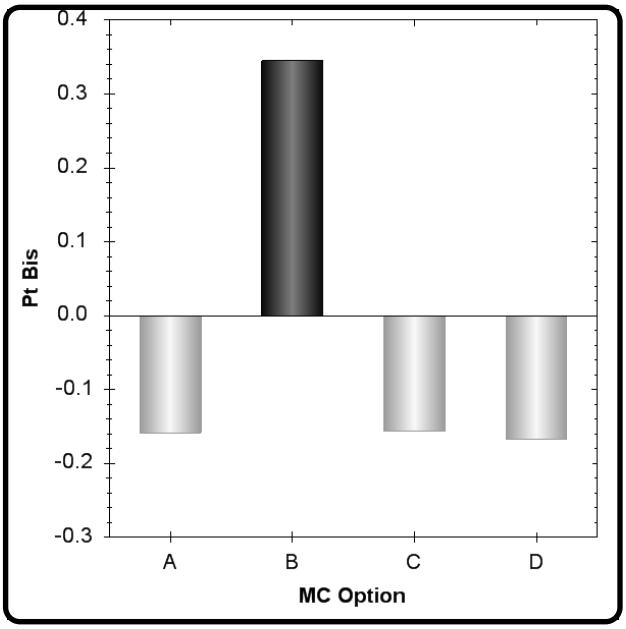
Grade 7	Math	CID 100000030552
Item # 39		Administration OP09
	G3a	

Type	Max Points	Correct Answer	N Count	Item Mean	Discrimination
Multiple Choice	1	B	6398	0.497	0.345

	A	B	C	D	Omit	Invalid
All	20	50	24	6	0	0
Low Scorers	29	27	31	12	0	0
Middle Scorers	21	45	28	6	0	0
High Scorers	10	78	11	1	0	0

MC Item Option Discriminations			
A	B	C	D
-0.159	0.345	-0.157	-0.167





Notes:

The finish times for five participants in a triathlon are listed in the table below.

Triathlon Finish Times

Participant	Time (Hr:Min:Sec)
1	6:22:02
2	6:30:20
3	6:52:06
4	6:53:05
5	6:30:10

What is the median of the finish times of the participants?

A. 6:30:20

B. 6:53:05

C. 6:30:10

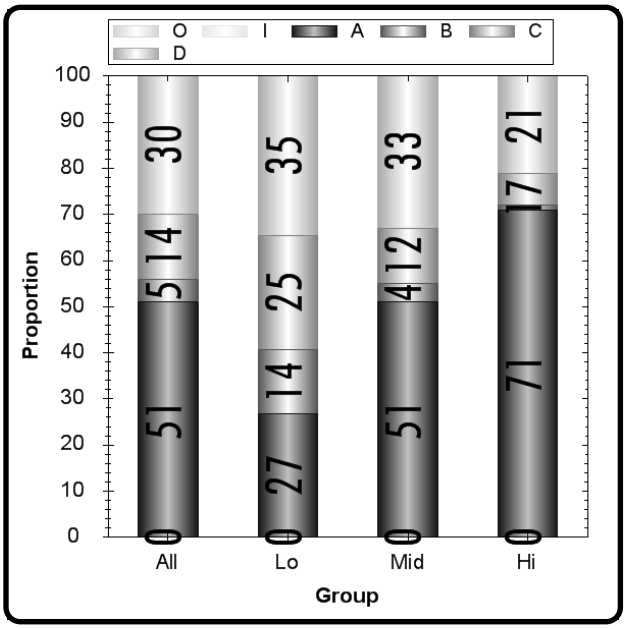
D. 6:52:06

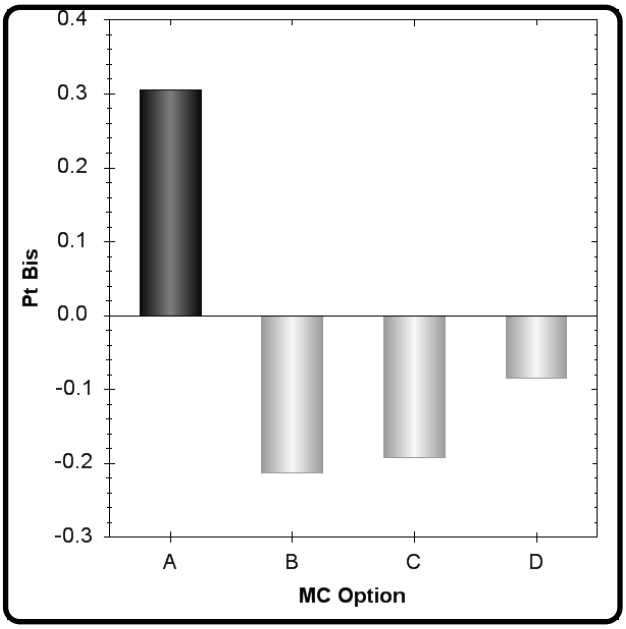
Grade 7	Math	CID 3415313
Item # 44		Administration OP09
	D1a	

Type	Max Points	Correct Answer	N Count	Item Mean	Discrimination
Multiple Choice	1	A	6398	0.508	0.306

	A	B	C	D	Omit	Invalid
All	51	5	14	30	0	0
Low Scorers	27	14	25	35	0	0
Middle Scorers	51	4	12	33	0	0
High Scorers	71	1	7	21	0	0

MC Item Option Discriminations			
A	B	C	D
0.306	-0.213	-0.192	-0.085

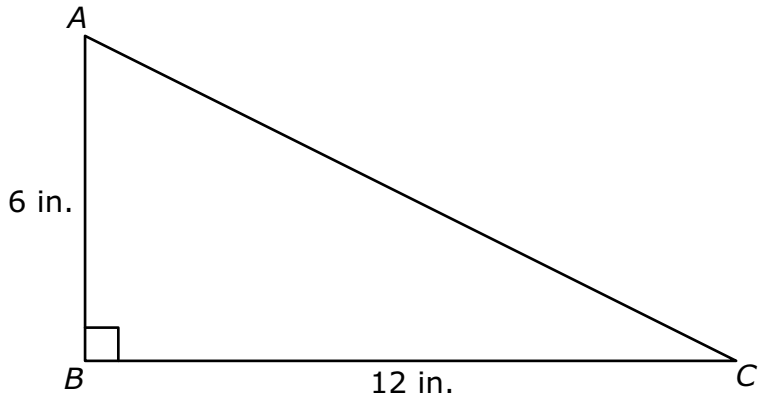




Notes:

Am. Indian students may perform better on this item as compared to White students. (B)

Triangle *ABC* is shown below.



Part A. What is the area of Δ*ABC*? Write your answer in the space provided. Show or explain how you got your answer.

Area of ΔABC: _____ in.^{2}

_____

_____

_____

Part B. **In the space provided, draw ΔABC. Then draw a new point, D, at the midpoint of $\overline{BC}$. Next draw segment $\overline{AD}$.**

What is the area of ΔABD? Write your answer in the space provided. Show or explain how you got your answer.

Area of ΔABD: _____ in.^{2}

_____

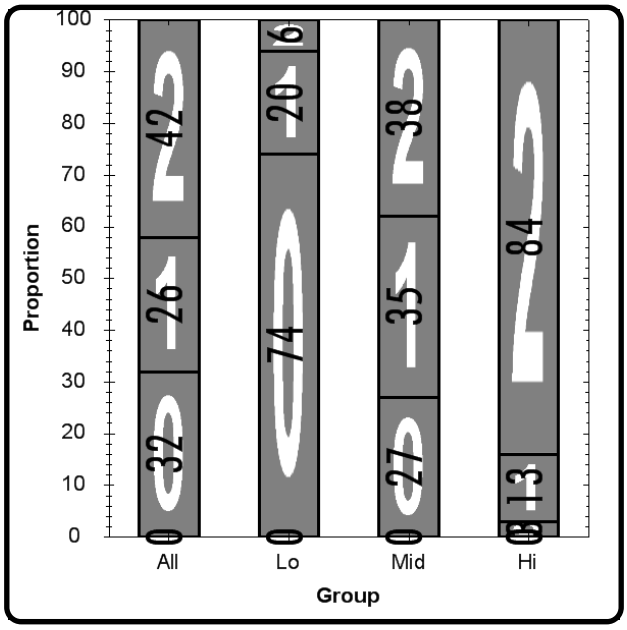
_____

_____

Grade 7	Math	CID 3339591
Item # 68		Administration OP08
	M2b	

Type	Max Points	N Count	Item Mean	Discrimination
Short Answer	2	6147	1.095	0.604

	0	1	2	Omit	Invalid
All	32	26	42	0	0
Low Scorers	74	20	6	0	0
Middle Scorers	27	35	38	0	0
High Scorers	3	13	84	0	0



Notes:

521949 1 2 3 4 5 A B C D E Printed in the USA ISD0080