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- **A** (-2, -4)
- **B** (-4, -2)
- **C** (10, 6)
- **D** (6, 10)



Mr. Lee has a small apple orchard. There are 7 rows of trees with *n* trees in each row. Which two expressions show different ways to find the total number of trees in Mr. Lee's apple orchard?

A n + n + n + n + n + n + n and 7 + n **B** n + n + n + n + n + n + n and $7 \cdot n$ **C** $n \cdot n \cdot n \cdot n \cdot n \cdot n \cdot n \cdot n$ and 7 + n**D** $n \cdot n \cdot n \cdot n \cdot n \cdot n \cdot n \cdot n$ and $7 \cdot n$

2







RUBRIC					
Score Point 2	 You complete all components of the question and communicate ideas clearly. You demonstrate an understanding of the concepts and/or processes. You provide a correct answer using an accurate explanation as support. 				
Score Point 1	 You provide a partially correct answer to the question and/or address only a portion of the question. You demonstrate a partial understanding of the concepts and/or processes. 				
Score Point 0	Your answer is totally incorrect or irrelevant.				
Blank	You did not give any answer at all.				
Note: No part can be incomplete or incorrect and receive full credit.					

Correct Answer:

Part A The range is 13, 70 – 57 = 13, the interquartile range is 3, 68 – 65 = 3. The difference is 10, 13 - 3 = 10.

Part B The range would be 6, 70 – 64 = 6, the interquartile range would be 3, 68 – 85 = 3. The difference would be 3, 6 – 3 = 3. So my answer in **part B** would be reduced by 7 since 10 - 3 = 7.



7

A package of six construction toys costs \$14.94, not including tax. If purchased separately, each truck is \$2.99, not including tax. What is the difference in the unit rate and the individual rate? Show your work or explain your thinking.

RUBRIC

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Blank	You did not give any answer at all.			
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Correct Answer:

The cost for 6 trucks is \$14.94 which results in each truck costing \$2.49.

 $14.49 \div 6 = 2.49$

Individually the trucks are \$2.99 so the difference between buying the trucks individually or in bulk is \$0.50.

2.99 - 2.49 = 0.50



8

A coordinate plane with points *P* and *S* is shown below.



- **Part A** Plot point *Q* so that it is a reflection of point *P* across the *y*-axis. What are the coordinates of point *Q*? Explain your thinking.
- **Part B** The coordinates of point *S* are (-3, -2). Explain how point *S* is related to point *P*.

Part C Point *R* is plotted on the coordinate graph so that line segments *SR* and *PQ* are a reflection of each other. What would have to be the coordinates of point *R*? Explain your thinking.



Question Number	Кеу	DOK*	KCAS Primary Standard**
1	D	2	6.G.3
2	В	2	6.EE.4
3	С	2	6.SP.4
4	В	2	6.G.1
5	А	2	6.EE.5
6	NA	3	6.SP.5c
7	NA	2	6.RP.3b
8	NA	2	6.NS.6b

Item Information

*DOK is the abbreviation for Depth of Knowledge. Please note that DOK is associated to the complexity level of an assessment item and is not aligned to the standard. Further information regarding DOK can be accessed on the Kentucky Department of Education website: http://www.education.ky.gov/kde/instructional+resources/curriculum+documents+and+ resources/core+content+for+assessment/core+content+for+assessment+4.1/content+specific+core +content+for+assessment+dok+support+materials.htm.

**Further information regarding Common Core Standards can be accessed on the Common Core website: http://www.corestandards.org.