

**A.S.11: Quartiles and Percentiles: Find the percentile rank of an item in a data set and identify the point values for first, second, and third quartiles**

- 1 The weights of 40 students were recorded. If the 75th percentile of their weights was 140 pounds, what is the total number of students who weighed *more than* 140 pounds?
  - 1) 10
  - 2) 20
  - 3) 30
  - 4) 4
  
- 2 Brianna's score on a national math assessment exceeded the scores of 95,000 of the 125,000 students who took the assessment. What was her percentile rank?
  - 1) 6
  - 2) 24
  - 3) 31
  - 4) 76
  
- 3 The freshman class held a canned food drive for 12 weeks. The results are summarized in the table below.

**Canned Food Drive Results**

Week	1	2	3	4	5	6	7	8	9	10	11	12
Number of Cans	20	35	32	45	58	46	28	23	31	79	65	62

Which number represents the second quartile of the number of cans of food collected?

- 1) 29.5
- 2) 30.5
- 3) 40
- 4) 60

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**Answer Section**

1 ANS: 1  
 $25\% \times 40 = 10$

REF: 011515ia

2 ANS: 4  
 $\frac{95000}{125000} = .76$

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3 ANS: 3 REF: 061017ia