



## I-75

Below are six identical baseballs shortly after being thrown. At the instant shown, the baseball's velocity is indicated, along with the distance the ball has traveled and the elapsed time since leaving the thrower's hand. Rank these baseballs on the basis of the force of the thrower's hand currently acting on them.


**A**

10 m  
0.2 s  30 m/s →


**B**

15 m  
0.2 s  50 m/s →


**C**

10 m  
0.2 s  40 m/s →


**D**

20 m  
0.4 s  40 m/s →

**E**

15 m  
0.4 s  30 m/s →

**F**

5.0 m  
0.1 s  50 m/s →

Largest 1. \_\_\_\_ 2. \_\_\_\_ 3. \_\_\_\_ 4. \_\_\_\_ 5. \_\_\_\_ 6. \_\_\_\_ Smallest  
\_\_\_\_ The ranking can not be determined based on the information provided.

Explain the reason for your ranking:

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