



**GMAT**

**Quant Section Test**

**[RATES]**

**- Questions**

1. Richard bicycles from his office to Church on a Saturday. If he increased his average speed by 25%, by what percent would the time taken by him come down?
  - A. 75%
  - B.  $33\frac{1}{3}\%$
  - C. 20%
  - D.  $16\frac{2}{3}\%$
  - E. 10%
  
2. Two printing machines work at a constant rate to produce flex. Can both printing machines X and Y together produce at least  $5f$  flex in 2 hours?
  - (1) Machine X produces  $f$  flex in  $\frac{2}{5}$  of an hour.
  - (2) Machine Y produces  $f$  flex in  $\frac{3}{5}$  of an hour.
  - A. Statement 1 alone is sufficient but statement 2 alone is not sufficient to answer the question asked.
  - B. Statement 2 alone is sufficient but statement 1 alone is not sufficient to answer the question asked.
  - C. Both statements 1 and 2 together are sufficient to answer the question but neither statement is sufficient alone.
  - D. Each statement alone is sufficient to answer the question.
  - E. Statements 1 and 2 are not sufficient to answer the question asked and additional data is needed to answer the statements.
  
3. Two athletes, Jim and Carl are running a 1000-meter race as a practice session. Jim gives Carl a head-start of 20 seconds as the speed of Jim is more than the speed of Carl. If Jim runs at the speed of 7 meters per second and Carl runs at a speed of 5 meter per second, what is the time, in seconds, that Carl have run before Jim catches up with her?
  - A. 10
  - B. 20
  - C. 40
  - D. 50
  - E. 70
  
4. A 300-meter train long train crosses a platform in 12 seconds. What is the speed of the battery car, in meter per second that crosses same platform?
  - (1) The train crosses the platform with an average speed of 135km/hr.
  - (2) The battery car crosses the same platform in 10 seconds.
  - A. Statement 1 alone is sufficient but statement 2 alone is not sufficient to answer the question asked.
  - B. Statement 2 alone is sufficient but statement 1 alone is not sufficient to answer the question asked.
  - C. Both statements 1 and 2 together are sufficient to answer the question but neither statement is sufficient alone.
  - D. Each statement alone is sufficient to answer the question.
  - E. Statements 1 and 2 are not sufficient to answer the question asked and additional data is needed to answer the statements.

5. Lilly travelled the same distance every day, from the first to tenth day of a month (both inclusive). For the first three days, she averaged 70 miles per hour. For the remaining seven days, she averaged 30 miles per hour. Approximately, what is Lilly's average speed for all ten days' commutes?
- A. 70
  - B. 57
  - C. 42
  - D. 36
  - E. 32

## BYJU'S - GMAT

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