GMAT QUANT PRACTICE PAPER

1. During a particular period, water enters a partially filled reservoir at a constant rate through a mountain stream. At the same time, water is pumped out of the reservoir at a constant rate through an outlet pipe. At what rate, in gallons per minute, is the amount of water in the reservoir increasing?

(1) The amount of water initially in the reservoir is 1800 gallons.

(2) Water is pumped into the reservoir at a rate of 8 gallons per minute and out of the reservoir at a rate of 20 gallons every 3 minutes.

- Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.
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2. If Runner A followed Runner B down a portion of track that is $\frac{1}{3}$ mile long, how many seconds did it take Runner A to run the track?

(1) Runner A ran onto the track 10 seconds after Runner B ran onto the track and ran off the track 8 seconds after Runner B ran off the track.

(2) Runner B ran the track at a constant speed of 9 miles per hour.

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3. If d and g are integers, is $d + g$ an even integer?

(1) d is an even integer.

(2) $d = g$

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4. The people in a room are lined up from youngest to oldest. The age of the first person is 15, and the each person thereafter is two years older than the previous person. What is the sum of ages?

(1) The number of people in the room is 37.

(2) The age of the last person is 87.

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5. l, 17.2, 12.2, 7.2, 22.2

What is the value of l in the list above?

(1) $l > 7.2$

(2) The median of the numbers in the list is 14.7.

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6. If $a + n = b$, what is the value of *n*?

(1) $b = 5$

(2) $b + 5 = a$

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7. What percent of the female residents of a particular county own a driver's license?

(1) Of the owners of a driver's license resident in the county, 25 percent are female.

(2) Of the non-owners of a driver's license resident in the county, 25 percent are male.

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8. In a lecture hall, what is the ratio of the number of women to the number of men?

(1) There are twice as many women as men in the lecture hall.

(2) The number of men is $\frac{1}{3}$ of the number of men and women in the lecture hall.

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9. In a lecture hall, what is the ratio of the number of women to the number of men?

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(2) The number of men is $\frac{1}{3}$ of the number of men and women in the lecture hall.

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10. In ΔABC, if $AB = a$, $BC = b + \frac{1}{2}$, and $AC = b$, which of the three angles of ΔABC has the greatest degree measure?

(1) $b = a + \frac{3}{2}$

(2) $a = \frac{1}{2}$

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11. If the sequence S has 100 terms, what is the 7th term of S?

(1) The 93rd term of S is -100, and each term of S after the first is 7 less than the preceding term.

(2) The first term of S is 544.

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12. at invested $4,000 at *a* percent simple annual interest and a different amount at *p* percent simple annual interest for the same period of time. What amount did Pat invest at *p* percent simple annual interest?

(1) The total amount of interest earned by Pat's investments in one year was $400.

(2) Pat invested the $4,000 at 4 percent simple annual interest.

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13. On a recent trip, Pat drove 10 miles. What Pat's average speed?

(1) Pat drove 6 miles at an average speed of 12 miles per hour and then drove the remaining 4 miles at an average speed of 10 miles per hour.

(2) Pat drove a total of 0.9 hours.

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14. If m is an integer, is m odd?

(1) $1 + m^2$ is an odd integer.

(2) $5m - 2$ is an even integer.

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15.
$n = 9.94l6$

If *l* denotes the thousandths digit in the decimal representation of *n* above, what digit is *l*?

(1) If *n* were rounded to the nearest hundredth, the result would be 9.95.

(2) If *n* were rounded to the nearest thousandth, the result would be 9.946.

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20. If 1,200 employees, males and females, requested a raise, how many requests were granted?

(1) $\frac{5}{12}$ of the males and $\frac{7}{12}$ of the females had their request granted.

(2) 200 of the requests made by males were granted.

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