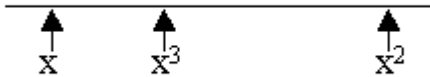**1.** Which of the following can be used to illustrate that not all prime numbers are odd?

Select one or more of the choices.

- ☐ A. 1
- ☐ B. 2
- ☐ C. 3
- ☐ D. 4

2. What is the greatest of 3 consecutive integers whose sum is 24 ?

- ○ A. 6
- ○ B. 7
- ○ C. 8
- ○ D. 9
- ○ E. 10

3. Considering the positions on the number line above, which of the following could be a value for x?
Select ALL such values.

- ☐ A. 5/3
- ☐ B. 3/5
- ☐ C. -2/5
- ☐ D. -3/4
- ☐ E. -5/2

4. A piece of ribbon 4 yards long is used to make bows requiring 15 inches of ribbon for each. What is the maximum number of bows that can be made?

- ○ A. 8
- ○ B. 9
- ○ C. 10
- ○ D. 11
- ○ E. 12

5. How many numbers between 200 and 400 meet **one or both** of the conditions given in the two statements below?
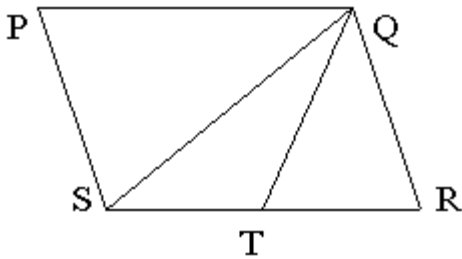Statement 1: The number begins with 3
Statement 2: The number ends with 3

○ A. 20

○ B. 60

○ C. 100

○ D. 110

○ E. 120

6. 6 pints of a 20 percent solution of alcohol in water are mixed with 4 pints of a 10 percent alcohol in water solution. The percentage alcohol in the new solution is

○ A. 16

○ B. 15

○ C. 14

○ D. 13

○ E. 12

7. PQRS is a parallelogram and ST = TR. What is the ratio of the area of triangle QST to the area of the parallelogram?

○ A. 1 : 2

○ B. 1 : 3

○ C. 1 : 4

○ D. 1 : 5

○ E. it cannot be determined

8. A picture is copied onto a sheet of paper 8.5 inches by 10 inches. A 1.5 inch margin is left all around. What area in square inches does the picture cover?

○ A. 76

○ B. 65

○ C. 59.5

○ D. 49

○ E. 38.5

Number of accidents	0	1	2	3	4	5	6
Number of drivers		17	13	21	4	2	2	1

9. The table shows the results of a poll which asked drivers how many accidents they had had over the previous 5 years. What is the median number of accidents per year?

- A. 0.5
- B. 1
- C. 1.5
- D. 2
- E. 4

10. If $V = 12R / (r + R)$, then $R =$

- A. $Vr / (12 - V)$
- B. $Vr + V /12$
- C. $Vr - 12$
- D. $V / r - 12$
- E. $V (r + 1) /12$

Answer Key

1. B

2. D

3. CD

4. B

5. D

6. A

7. C

8. E

9. C

10. A