

SAT Math Practice Questions-1

1. A special lottery is to be held to select the student who will live in the only deluxe room in a dormitory. There are 100 seniors, 150 juniors, and 200 sophomores who applied. Each senior's name is placed in the lottery 3 times; each junior's name, 2 times; and each sophomore's name, 1 time. What is the probability that a senior's name will be chosen?

- A) $\frac{1}{8}$ B) $\frac{2}{9}$ C) $\frac{2}{7}$ D) $\frac{3}{8}$ E) $\frac{1}{2}$

2. The projected sales volume of a video game cartridge is given by the function $s(p) = \frac{3000}{2p+x}$ where s is the number of cartridges sold, in thousands; p is the price per cartridge, in dollars; and x is a constant. If according to the projections, 100,000 cartridges are sold at \$10 per cartridge, how many cartridges will be sold at \$20 per cartridge?

- A) 20,000 B) 50,000 C) 60,000 D) 150,000 E) 200,000

3. Of the following, which is greater than $\frac{1}{2}$?

- A) $\frac{2}{5}$ B) $\frac{4}{7}$ C) $\frac{4}{9}$ D) $\frac{5}{11}$ E) $\frac{6}{13}$

4. If an object travels at five feet per second, how many feet does it travel in one hour?

- A) 30 B) 300 C) 720 D) 1800 E) 18000

5. What is the average (arithmetic mean) of all the multiples of ten from 10 to 190 inclusive?

- A) 90 B) 95 C) 100 D) 105 E) 110

6. A cubical block of metal weighs 6 pounds. How much will another cube of the same metal weigh if its sides are twice as long?

- A) 48 B) 32 C) 24 D) 18 E) 12

7. In a class of 78 students 41 are taking French, 22 are taking German. Of the students taking French or German, 9 are taking both courses. How many students are not enrolled in either course?

- A) 6 B) 15 C) 24 D) 33 E) 54

8. If $f(x) = |x^2 - 50|$, what is the value of $f(-5)$?

- A) 75 B) 25 C) 0 D) -25 E) -75

9. $(\sqrt{2} - \sqrt{3})^2 = ?$

- A) $5 - 2\sqrt{6}$ B) $5 - \sqrt{6}$ C) $1 - 2\sqrt{6}$ D) $1 - \sqrt{2}$ E) 1

10. $2^{30} + 2^{30} + 2^{30} + 2^{30} = ?$

- A) 8^{120} B) 8^{30} C) 2^{32} D) 2^{30} E) 2^{26}

Answers: 1. D 2.C 3.B 4.E 5.B 6.A 7.C 8.B 9.A 10.C

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