



# SAT2-MATHEMATICS<sup>Q&As</sup>

SAT Section 2: Mathematics

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**QUESTION 1**

Which of the following statements is always true if  $p$  is a rational number?

A.  $|p| < |3p|$

B.  $|p^2| > |p + 1|$

C.  $|-p| > p$

D.  $|p^3| > |p^2|$

E.  $|p^{-p}| > p^{-p}$

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: A

No matter whether  $p$  is positive or negative, or whether  $p$  is a fraction, whole number, or mixed number, the absolute value of three times any number will always be positive and greater than the absolute value of that number.

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**QUESTION 2**

A number cube is labeled with the numbers one through six, with one number on each side of the cube. What is the probability of rolling either a number that is even or a number that is a factor of 9?



A.  $\frac{1}{3}$

B.  $\frac{1}{2}$

C.  $\frac{2}{3}$

D.  $\frac{5}{6}$

E. 1

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: D

$$\frac{2}{6} \text{ or } \frac{1}{3}$$

There are three numbers on the cube that are even (2, 4, 6), so the probability of rolling an even number is  $\frac{1}{2}$ . There are two numbers on the cube that are factors of 9 (1, 3), so the probability of rolling a factor of 9 is

No numbers are members of both sets, so to find the probability of rolling either a number that is even or a number that is a factor of 9, add the probability of each event:

$$\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$



### QUESTION 3

If  $q$  is decreased by  $p$  percent, then the value of  $q$  is now

A.  $q - p$

B.  $q - \frac{p}{100}$

C.  $\frac{-pq}{100}$

D.  $q - \frac{pq}{100}$

E.  $pq - \frac{pq}{100}$

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: D

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### QUESTION 4

A dormitory now houses 30 men and allows 42 square feet of space per man. If five more men are put into this dormitory, how much less space will each man have?

A. 5 square feet

B. 6 square feet

C. 7 square feet

D. 8 square feet

E. 9 square feet

Correct Answer: B

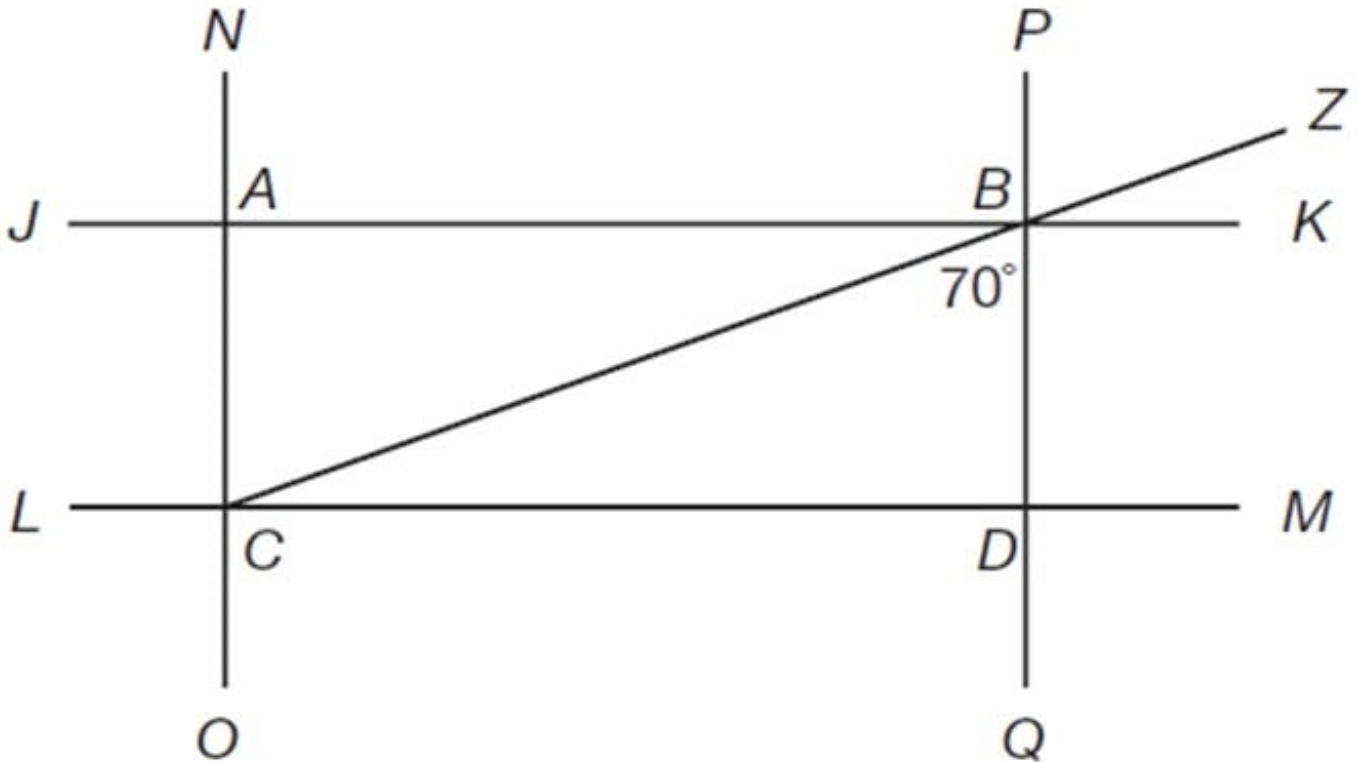
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Explanation:

30 men X 42 square feet = 1,260 square feet of space; 1,260 square feet ÷ 35 men = 36 square feet; 42 – 36 = 6, so each man will have 6 less square feet of space.

**QUESTION 5**



In the diagram above, lines NO and PQ are parallel to each other and perpendicular to lines JK and LM. Line JK is parallel to line LM. If angle CBD is 70 degrees, what is the measure of angle ZBK?

- A. 10 degrees
- B. 20 degrees
- C. 70 degrees
- D. 90 degrees
- E. 110 degrees

Correct Answer: B

Explanation:

Angle CBD and angle PBZ are alternating angles — their measures are equal. Angle PBZ = 70 degrees. Angle PBZ + angle ZBK form angle PBK. Line PQ is perpendicular to line JK; therefore, angle PBK is a right angle (90 degrees). Angle ZBK = angle PBK – angle PBZ = 90 – 70 = 20 degrees.



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