



SAT2-MATHEMATICS^{Q&As}

SAT Section 2: Mathematics

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**QUESTION 1**

The number p is greater than 0, a multiple of 6, and a factor of 180. How many possibilities are there for the value of p ?

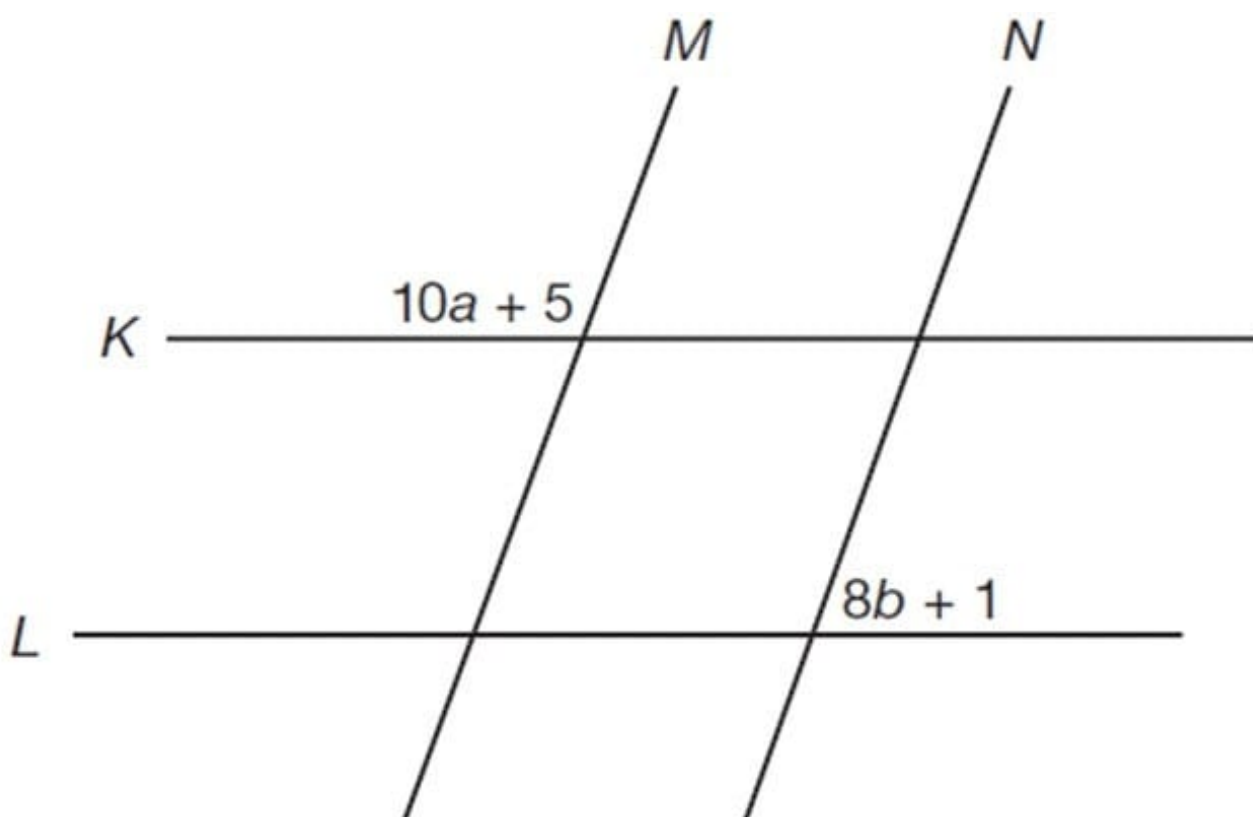
- A. 7
- B. 8
- C. 9
- D. 10
- E. 11

Correct Answer: B

The positive factors of 180 (the positive numbers that divide evenly into 180) are 1, 2, 3, 4, 5, 6, 9, 10, 12, 15, 18, 20, 30, 36, 45, 60, 90, and 180. Of these numbers, 8 (6, 12, 18, 30, 36, 60, 90, and 180) are multiples of 6.

QUESTION 2

SIMULATION



In the diagram above, lines K and L are parallel, and lines M and N are parallel. If $b = 8$, then $a = ?$

- A. 11



Correct Answer: A

The labeled angle formed by lines M and K and the supplement of the labeled angle formed by lines L and N are alternating angles. Therefore, they are congruent. The angle labeled $(10a + 5)$ and its supplement, which is equal to $(8b + 1)$, total 180 degrees: $(10a + 5) + (8b + 1) = 180$. If $b = 8$, then:
 $(10a + 5) + (8(8) + 1) = 180$
 $10a + 70 = 180$
 $10a = 110$
 $a = 11$

QUESTION 3

$$y = \frac{2}{3}x - 5$$

Line is perpendicular to line

A. $y = \frac{2}{3}x + 5$

B. $y = 5 - \frac{2}{3}x$

C. $y = -\frac{2}{3}x - 5$

D. $y = \frac{3}{2}x - 5$

E. $y = -\frac{2}{3}x + 5$

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: E

Explanation:

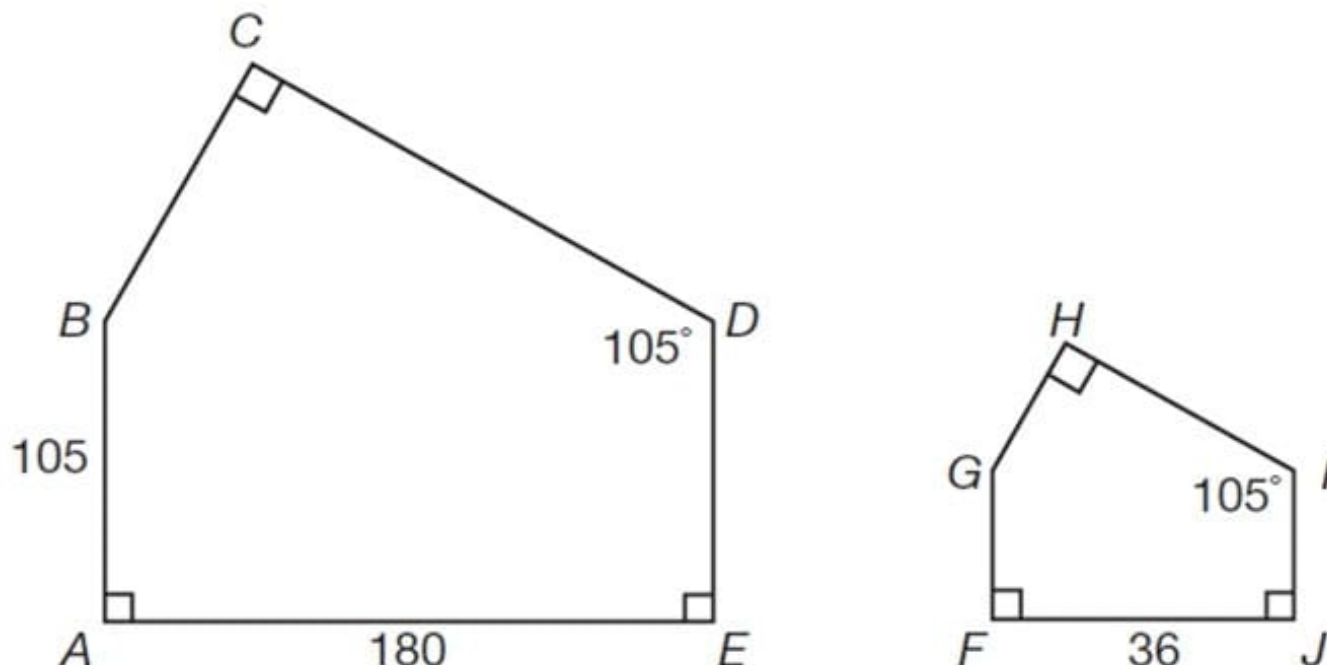
Perpendicular lines have slopes that are negative reciprocals of each other. The slope of the line given is $\frac{2}{3}$.

The negative reciprocal of $\frac{2}{3}$ is $-\frac{3}{2}$. Every line with a slope of $-\frac{3}{2}$ is perpendicular to the given line; $y = \frac{3}{2}x + 5$ is perpendicular to $y = \frac{2}{3}x - 5$.



QUESTION 4

SIMULATION A. 21



In the diagram above, what is the length of side FG ?

Correct Answer: A

Both figures contain five angles. Each figure contains three right angles and an angle labeled 105 degrees. Therefore, the corresponding angles in each figure whose measures are not given (angles B and G, respectively) must also be equal, which makes the two figures similar. The lengths of the sides of similar figures are in the same ratio. The length of side FJ is 36 units and the length of its corresponding side, AE, in figure ABCDE is 180 units. Therefore, the ratio of side FJ to side AE is 36:180 or 1:5. The lengths of sides FG and AB are in the same ratio. If the length of side FG is x , then:

$$\frac{x}{105} = \frac{1}{5}, 5x = 105, x = 21.$$

The length of side FG is 21 units.

QUESTION 5

Simon plays a video game four times. His game scores are 18 points, 27 points, 12 points, and 15 points. How many points must Simon score in his fifth game in order for the mean, median, and mode of the five games to equal each other?

A. 12 points



B. 15 points

C. 18 points

D. 21 points

E. 27 points

Correct Answer: C

For the median and mode to equal each other, the fifth score must be the same as one of the first four, and, it must fall in the middle position when the five scores are ordered. Therefore, Simon must have scored either 15 or 18 points in his fifth game. If he scored 15 points, then his mean score would have been greater than 15: 17.4. Simon scored 18 points in his fifth game, making the mean, median, and mode for the five games equal to 18.

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