



SAT2-MATHEMATICS^{Q&As}

SAT Section 2: Mathematics

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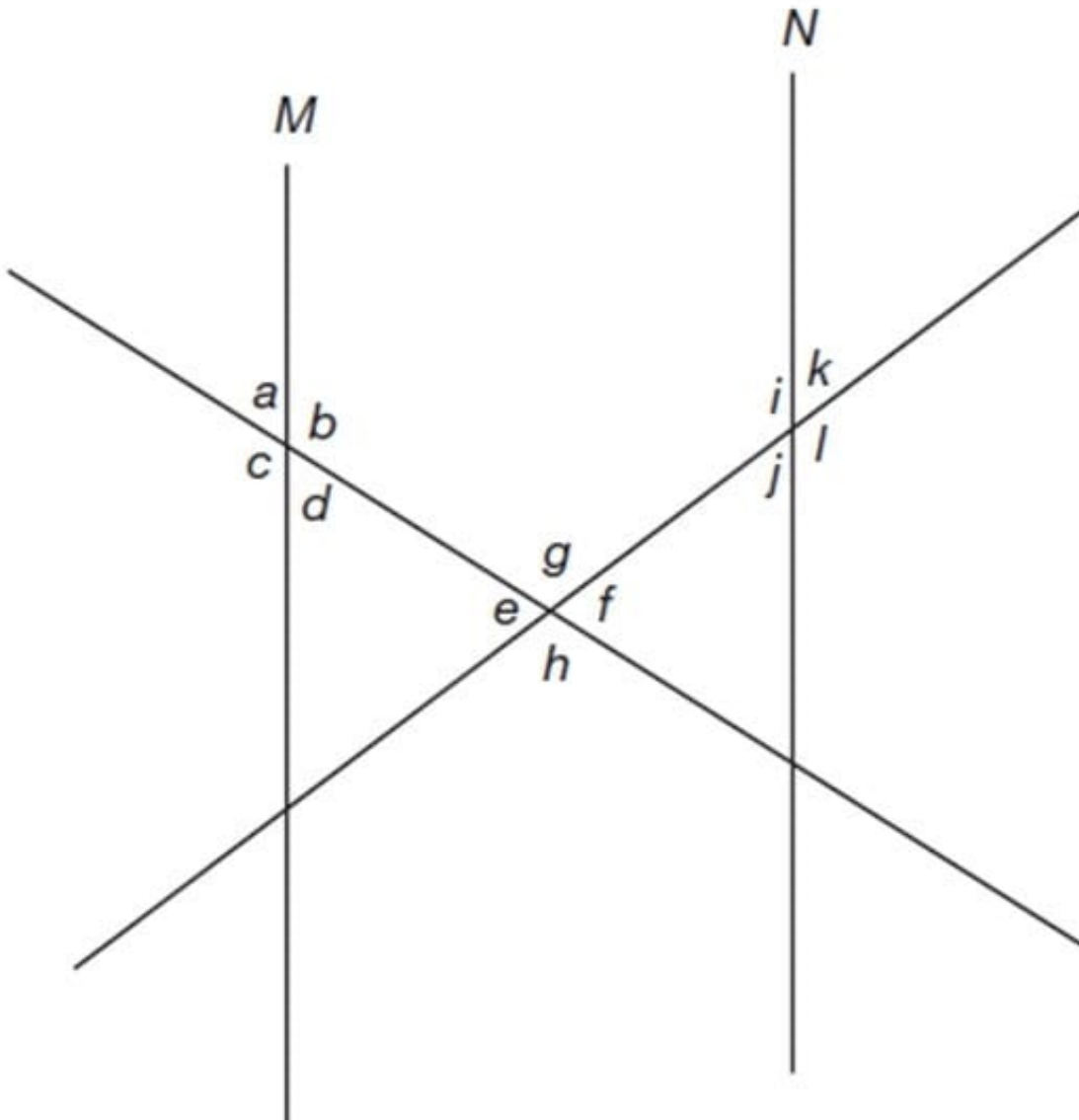
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QUESTION 1



In the diagram above, lines M and N are parallel. All of the following are true EXCEPT:

- A. $a + b = j + l$.
- B. $g = h$.
- C. $c + f = f + b$.
- D. $g + e + f + h = 360$.
- E. $d + e = f + j$.



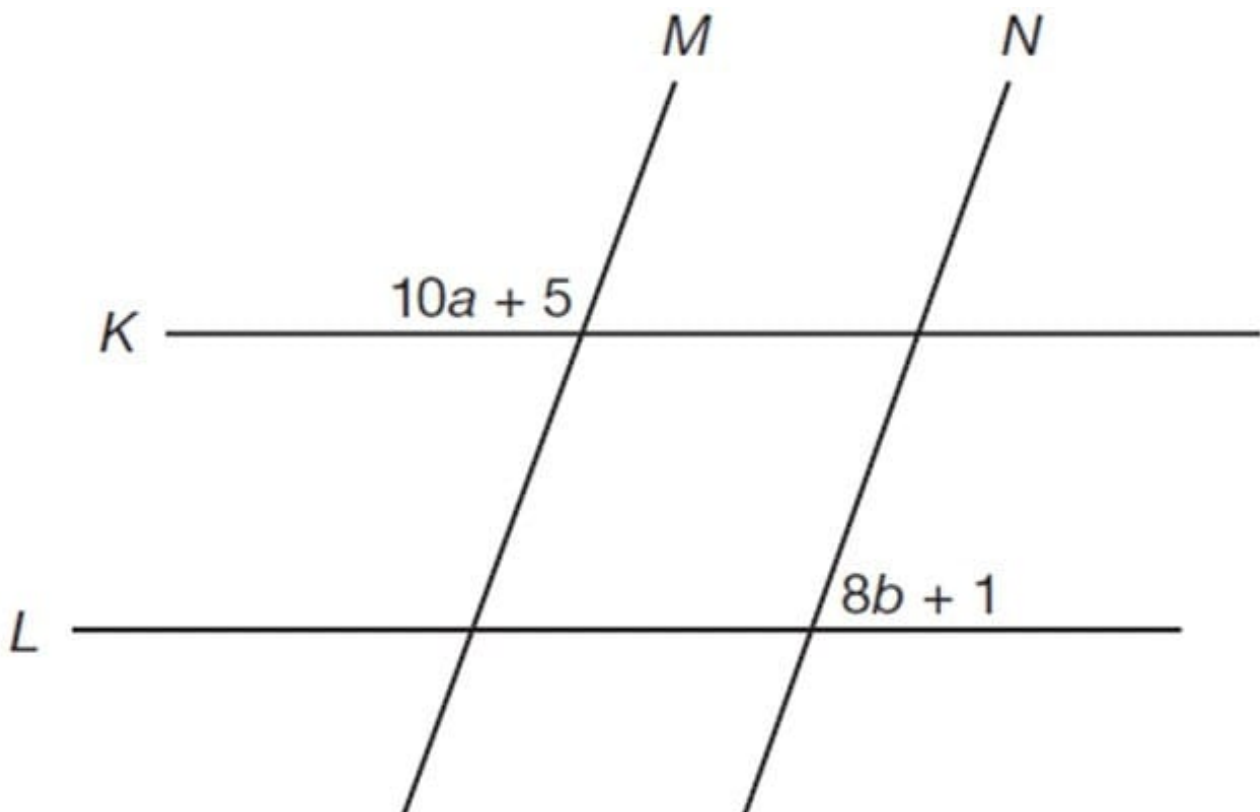
- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Correct Answer: E

Angles e and f are vertical angles, so angle e = angle f . However, angle d and angle j are not alternating angles. These angles are formed by different transversals. It cannot be stated that angle d = angle j , therefore, it cannot be stated that $d + e = f + j$.

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

A bank contains one penny, two quarters, four nickels, and three dimes. What is the probability of selecting a coin that is worth more than five cents but less than 30 cents?

A. $\frac{1}{5}$

B. $\frac{1}{4}$

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

D. $\frac{7}{10}$

E. $\frac{9}{10}$

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: C

$$\frac{5}{10} \text{ or } \frac{1}{2}$$

There are ten coins in the bank (1 penny + 2 quarters + 4 nickels + 3 dimes). The two quarters and three dimes are each worth more than five cents but less than 30 cents, so the probability of selecting one of these coins is

**QUESTION 4**

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

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

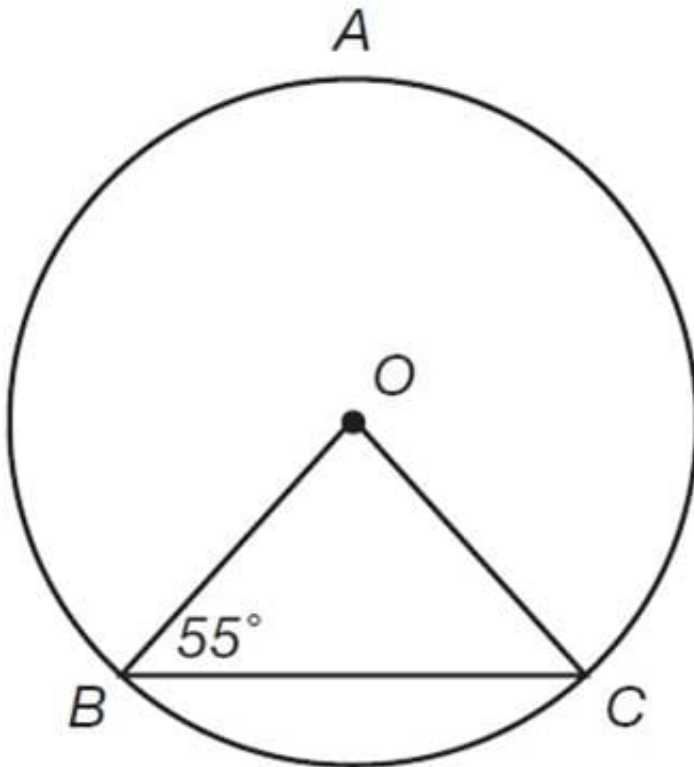
There are three numbers on the cube that are even (2, 4, 6), so the probability of rolling an even number is $\frac{1}{2}$. There are two numbers on the cube that are factors of 9 (1, 3), so the probability of rolling a factor of 9 is



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 5



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In the diagram above, side OB side OC. Which of the following is the measure of minor arc BC?

- A. 27.5 degrees
- B. 45 degrees
- C. 55 degrees
- D. 70 degrees
- E. 110 degrees

Correct Answer: D

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Line OB line OC, which means the angles opposite line OB and OC (angles C and B) are congruent. Since angle B = 55 degrees, then angle C = 55 degrees. There are 180 degrees in a triangle, so the measure of angle O is equal to $180 - (55 + 55) = 180 - 110 = 70$ degrees. Angle O is a central angle. The measure of its intercepted arc, minor arc BC, is equal to the measure of angle O, 70 degrees.

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