

Examrace**SAT Practice Test Paper 1 Section B Questions and Answers Part 3**

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17. The numbers from the number set $\{9, 11, 12, 15, 16\}$ must be put in the below boxes according to these conditions:

Boxes A, C, and D contain numbers divisible by three.

Box B contains a prime number.

Which number must be in Box E?

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
A	B	C	D	E

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(A) 9

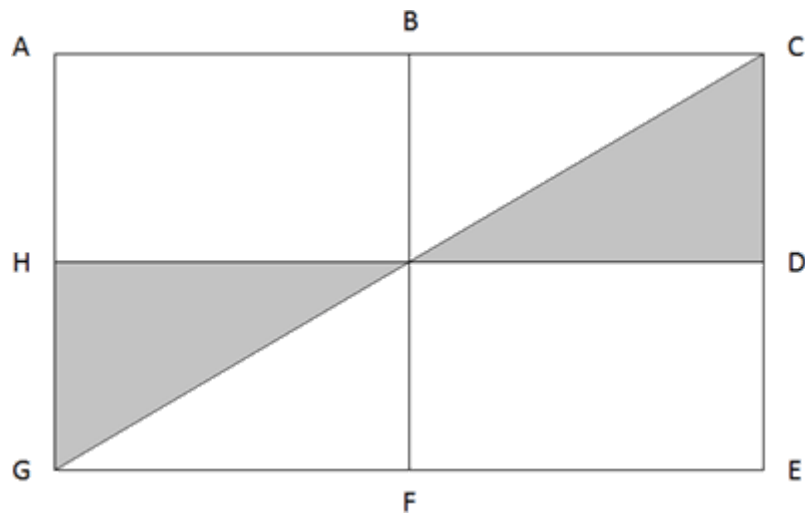
(B) 11

(C) 12

(D) 15

(E) 16

18. If, $\overline{AC} = 8$, $\overline{AB} = 4$, and D and H are midpoints on \overline{CE} and \overline{AG} respectively, what percentage of the rectangle is shaded?



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- (A) 12.5%
- (B) 16.33%
- (C) 20%
- (D) 25%
- (E) 30%

19. Raising $n^{\frac{-p}{n}}$ by which of the following will give the result n ?

- (A) $p^{\frac{-p}{n}}$
- (B) $n^{\frac{n}{p}}$
- (C) $\frac{p}{n}$
- (D) $\frac{-n}{p}$
- (E) $\frac{n+p}{p}$

20. If n is a positive integer and n , $n - 2$, and $n + 2$ are each prime numbers, then the set of those three numbers is called a prime triplet. How many different prime triplets are there where none of the set is greater than fifty?

- (A) 1
- (B) 2
- (C) 3
- (D) 4
- (E) None.

21. If a circle has four tangents, each of which is perpendicular to two of the other tangents, then

- (A) At most one pair of tangent lines is parallel.
- (B) At most two pairs of tangent lines are parallel.
- (C) All four tangent lines are parallel.
- (D) A square is inscribed in the circle.
- (E) One particular diameter could be perpendicular to all four tangent lines.

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