

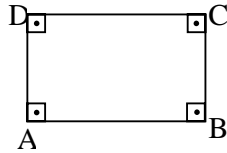
1. If the perimeter of a square is $16\sqrt{3}$, then find the area of this square.

- A) 48 B) 64 C) 128 D) 192

2. If the perimeter of a square is 12 cm then its area in cm^2 is

- A) 4 B) 9 C) 16 D) 25 E) 36

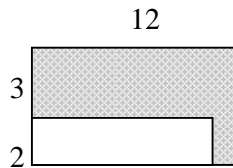
3. The length of the given rectangle is 5 cm shorter than three times the width. If the perimeter is 62 cm, then find the area of the rectangle.



- A) 72 B) 99 C) 162 D) 198

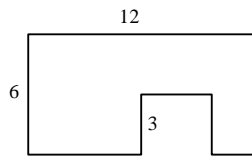
4. What is the area of the shaded region?

- A) 34 B) 35
C) 36 D) 37
E) 38



5. What is the perimeter of this figure?

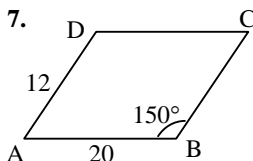
- A) 42 B) 46
C) 48 D) 50
E) 52



6. Which of the following is not a parallelogram?

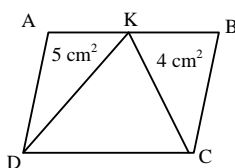
- A) square B) rectangle C) rhombus
D) trapezoid E) none of above

7. In the given figure, ABCD is a parallelogram, $|AD| = 12$, $|AB| = 20$ and $m(\hat{B}) = 150^\circ$. Find the area of ABCD.



- A) $60\sqrt{3}$ B) $75\sqrt{3}$ C) 120 D) 240

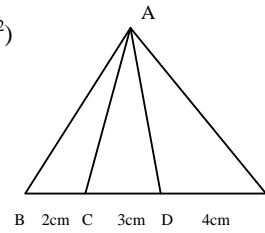
8. A parallelogram is divided into three regions as seen in the figure. What is $A(DKC)$ in cm^2 ?



- A) 4 B) 5 C) 9 D) 10 E) 18

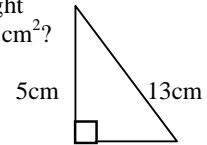
9. If $A(ABE) = 27\text{cm}^2$ then $A(ACD) = ?$ (in cm^2)

- A) 9 B) 10
C) 12 D) 15
E) 18

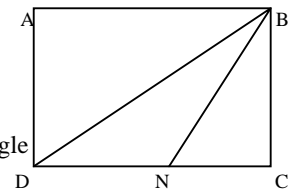


10. What is the perimeter of the right triangle given if its area is 30 cm^2 ?

- A) 25cm B) 30cm
C) 35cm D) 40 cm
E) 45 cm

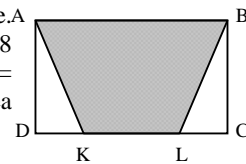


11. Let ABCD is a rectangle with a perimeter 24cm. $|AB| = 8\text{cm}$, $|CN| = 3\text{cm}$, what is the area of the triangle BND in cm^2 ?



- A) 8 B) 12 C) 25 D) 10 E) 15

12. ABCD is a rectangle. $|AD| = 6\text{ cm}$, $|KL| = 8\text{ cm}$, $|LC| = 4\text{ cm}$, $|AB| = 15\text{ cm}$, what is the area ABLK in cm^2 ?

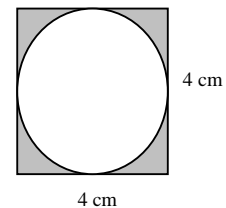


- A) 69 B) 60 C) 55 D) 50 E) 45

13. A four-sided figure whose all side lengths are equal, then this figure can be a ...

- A) kite B) trapezoid C) rectangle
D) rhombus E) triangle

14. What is the shaded area in cm^2 between the square and the circle as given in the figure? ($\pi = 3$)



- A) 2 B) 3
C) 4 D) 5
E) 6

15. How many faces does a cube have?

- A) 6 B) 7 C) 8 D) 9 E) 12

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16. Which of the followings does not have two bases ?

- A) cube B) cylinder C) triangular prism
 D) rectangular prism E) pyramid

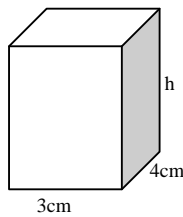
17. For a cylinder, if lateral area is equal to sum of the areas of the bases then

- A) $r = 2h$ B) $h = 2r$ C) $r = h$
 D) $r = 3h$ E) $h = 3r$

18. For a cylinder if radius is doubled then the volume ...

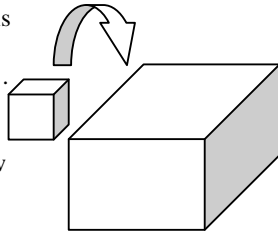
- A) does not changed B) is doubled also
 C) is multiplied by 3 D) is multiplied by 4
 E) is multiplied by 5

19. What must be the height of of this prism, if its volume is 84cm^3 ?



- A) 6 B) 7 C) 8 D) 9 E) 10

20. A cube with a side 2cm is immersed into a prism with a base 4cm x 6cm . If the level of water in the prism was 3 cm from the base, then new level of water from the base now is ...



- A) $3\frac{1}{4}$ B) $3\frac{1}{3}$ C) 4 D) $4\frac{1}{4}$ E) $4\frac{1}{3}$

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