Area of Plane Figures.

Choose the correct answer from the following questions

1. Which of the following is the particular formula for finding the area of an isosceles triangle?

a) $\frac{\sqrt{3}\,a^2}{4}$ ☐ b) $\frac{b}{4}\sqrt{4a^2 - b^2}$ ☐

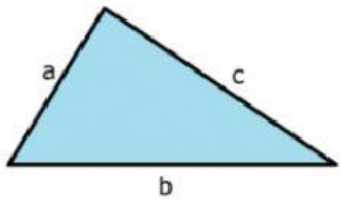
c) $\frac{1}{2}(b \times h)$ ☐ d) $\sqrt{s(s-a)(s-b)(s-c)}$ ☐

2. In the formula $\frac{b}{4}\sqrt{4a^2 - b^2}$ of finding area of an isosceles triangle what does "a" mean.

a) Perimeter ☐ b) base ☐

c) vertical angle ☐ d) equal sides ☐

3. What are the area and perimeter of the given scalene triangle?

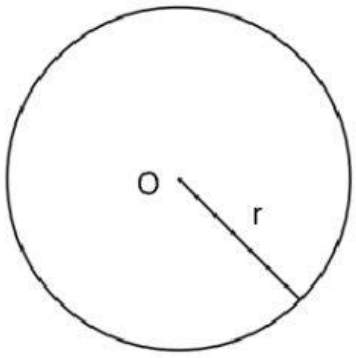


a) Area = $\sqrt{s(s-a)(s-b)(s-c)}$ where, s = $\frac{a+b+c}{2}$, Perimeter = a + c + c ☐

b) Area = $\sqrt{s(s-a)(s-b)(s-c)}$ where, s = $\frac{a+b+c}{2}$, Perimeter = a + b + c ☐

c) Area = $\frac{\sqrt{3}\,a^2}{4}$, Perimeter = a + b + c ☐

4. Find the area and perimeter of circle.



a) Area = πr^2, perimeter = $2\pi r$ ☐ b) Area = πr^2, perimeter = $2\pi r^2$ ☐

c) Area = $2\pi r^2$, perimeter = $2\pi r$ ☐

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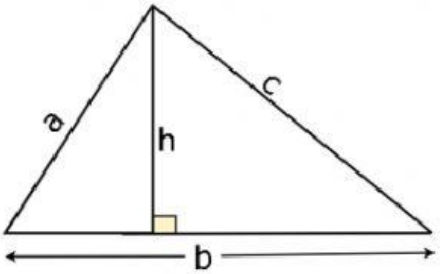
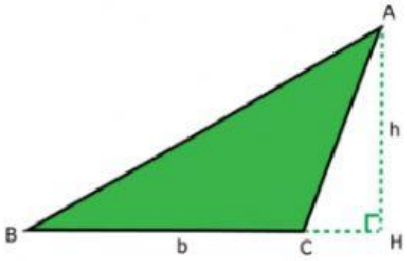
LIVEWORKSHEETS

Area of Plane Figures.

Choose the correct answer from the following questions

5. What is the area and perimeter of given acute angled & obtuse angled triangle.





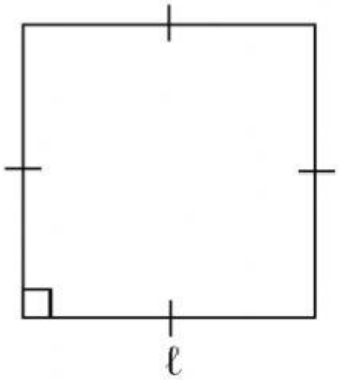
a) Area = $\frac{1}{2} \times h \times h$, perimeter = a + b + c

b) Area = $\frac{1}{2} \times b \times b$, perimeter = a + b + b

c) Area = $\frac{1}{2} \times b \times h$, perimeter = a + b + c

d) Area = $\frac{1}{2} \times b \times h$, perimeter = a + h + c

6.What is the area and perimeter of the square whose one side is l unit given?



a) Area = l^2, perimeter = $2l$

b) Area = l^2, perimeter = $4l$

c) Area = l^3, perimeter = $4l$

d) Area = l^2, perimeter = $3l$

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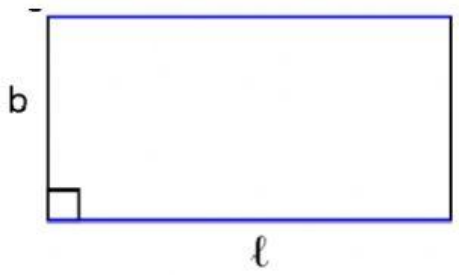
LIVEWORKSHEETS

Area of Plane Figures.

Choose the correct answer from the following questions

7. Find the area and perimeter of rectangle whose length and breadth are l & b respectively.



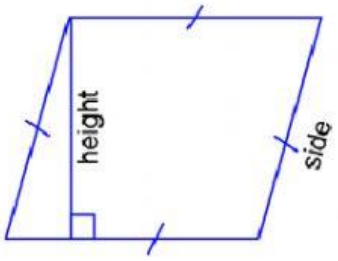
a) Area = $l \times b$, Perimeter = 2(l + b)

b) Area = $l \times b$, Perimeter = (l + b)

c) Area = $l \times b$, Perimeter = 3(l + b)

d) Area = l^2, Perimeter = 2 (l+ b)

8.Find the area and perimeter of given rhombus?



a) Area = $2(side \times height)$, perimeter = $4 \times side$

b) Area = $side \times height$, perimeter = $2 \times side$

c) Area = $side \times height$, perimeter = $4 \times side$

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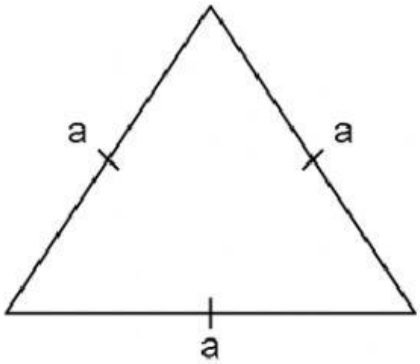
Area of Plane Figures.

Choose the correct answer from the following questions

9.Find the area and perimeter of the given equilateral triangle?



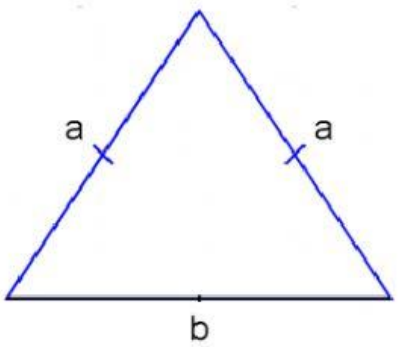
a) Area = $\frac{\sqrt{2}a^2}{4}$, Perimeter = 4a

b) Area = $\frac{\sqrt{3}a^2}{4}$, Perimeter = 2a

c) Area = $\frac{\sqrt{3}a^2}{4}$, Perimeter = 3a

d) Area = $\frac{\sqrt{3}a^2}{2}$, Perimeter = 3a

10. What is the area and perimeter of given isosceles triangle?



a) Area = $\frac{b}{4}\sqrt{4b^2 - a^2}$, Perimeter = 2a + b

b) Area = $\frac{b}{2}\sqrt{4a^2 - b^2}$, Perimeter = a + a + b = 2a + b

c) Area = $\frac{b}{4}\sqrt{4a^2 - b^2}$, Perimeter = a + a + b = 2a + b

d) Area = $\frac{b}{4}\sqrt{2a^2 - b^2}$, Perimeter = a + b + b = a +2b

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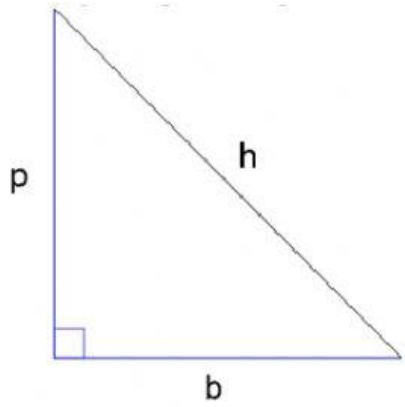
Area of Plane Figures.

Choose the correct answer from the following questions

11. What is the area and perimeter of the right-angled triangle?



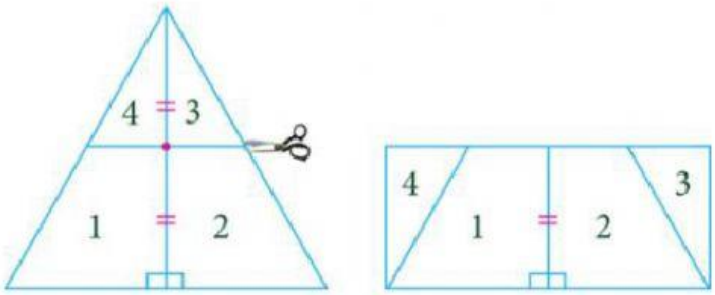
a) Area = $\frac{1}{3} \times b \times p$, Perimeter = (p + b + h)

b) Area = $\frac{1}{2} \times b \times p$, Perimeter = (p + b + b)

c) Area = $\frac{1}{2} \times b \times p$, Perimeter = (p + b + h)

d) Area = $\frac{1}{2} \times b \times h$, Perimeter = (p + b + h)

12.In the given figure, a triangle-shaped paper is cut and a rectangle is formed. The numbers show the piece of papers arranged forming the rectangle. If the base = a and height = b, what are the base and height of rectangle?



a) base = a & height = $\frac{1}{2}b$

b) base = a & height = $2b$

c) base = a & height = b

d) base = $\frac{1}{2}a$ & height = b

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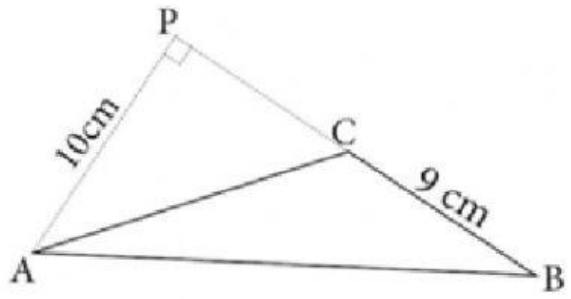
Area of Plane Figures.

Write the correct answer of the following questions in the box.

1. Write the area of ΔABC from the given figure.



cm^2

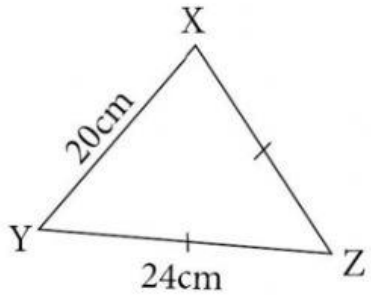
2. Calculate the area of an equilateral triangle whose one side is 4 cm.

cm^2

3. Calculate the area of an equilateral triangle whose perimeter is 18 cm.

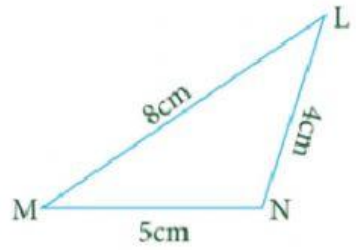
cm^2

4. Find the area of given ΔXYZ.



cm^2

5. Calculate the area of ΔLMN.



cm^2

6. Calculate the area of triangle whose sides are a = 48 cm, b = 40 cm & c = 36 cm. cm^2

cm^2

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Area of Plane Figures.

Write the correct answer of the following questions in the box.

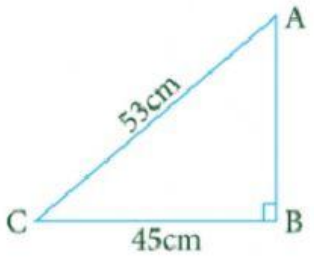
7. If the perimeter and any two sides of a triangle are 38 cm, 9 cm and 15 cm respectively. Calculate the area of the triangle.

cm^2

8. The sides of a triangle are in the ratio 3:4:5. If its perimeter is 36 cm, Find its area.

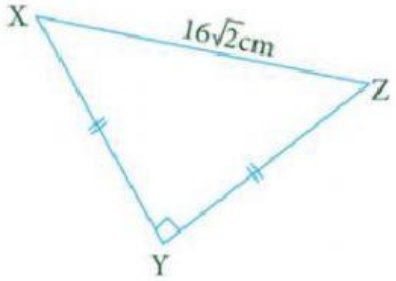
cm^2

9. Calculate the area of the given right-angled triangle ABC.



cm^2

11. Calculate the area of the given ΔXYZ.



cm^2

12. If the area of an equilateral triangle is $16\sqrt{3}cm^2$, find its perimeter.

cm^2

13. Calculate the perimeter of an equilateral triangle whose area is $9\sqrt{3}cm^2$.

cm^2

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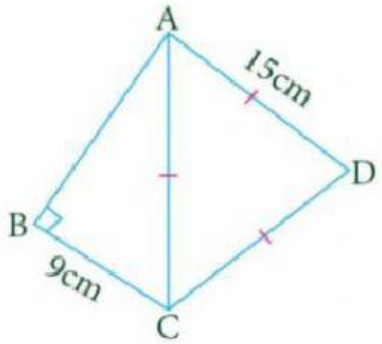
Area of Plane Figures.

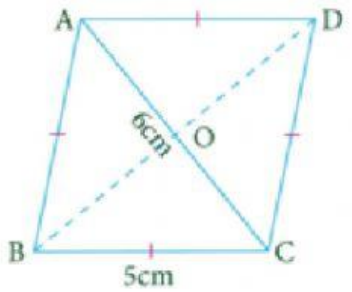
Write the correct answer of the following questions in the box.

14.Calculate the area of the given quadrilateral ABCD.



cm^2

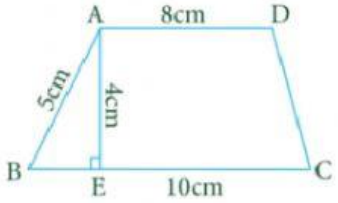
15. In the given fig, ABCD is a rhombus, find the following



a) Area of rhombus ABCD = cm^2

b) Length of the diagonal BD = cm

16. Find the area of the given trapezium ABCD where, $AD \parallel BC$, AE = 4 cm, AB = 5 cm, AD = 8 cm and EC = 10 cm.



cm^2

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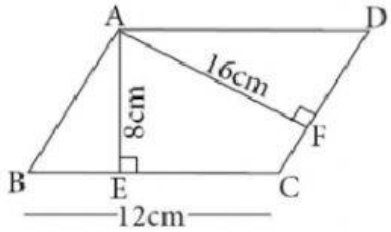
Area of Plane Figures.

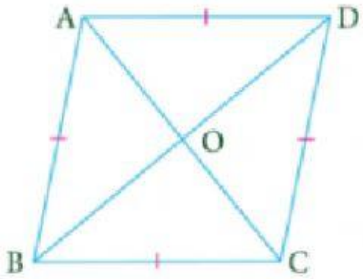
Write the correct answer of the following questions in the box.

17. In the given figure, ABCD is a parallelogram, find the following



a) Area of ▭ABCD = [ ] cm^2 b) Length of CD = [ ] cm

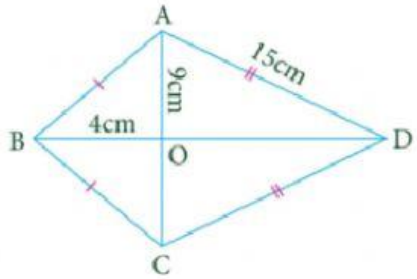
18. Area of given rhombus ABCD is 96 cm^2. If the length of AC is 12 cm, find the length of



a) diagonal BD = [ ] cm

b) BC = [ ] cm

19. In the given Kite ABCD, AD = 15 cm, OA = 9 cm & OB = 4 cm. Find the following



a) Area of ΔABC = [ ] cm^2 b) Area of ΔABC = [ ] cm^2

c) Area of kite ABCD = [ ] cm^2

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