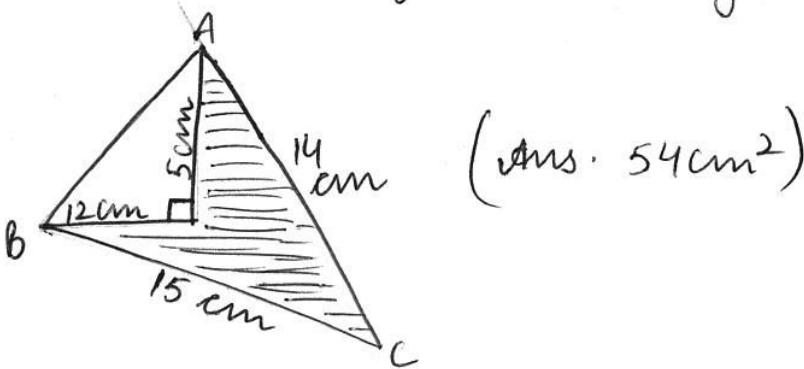
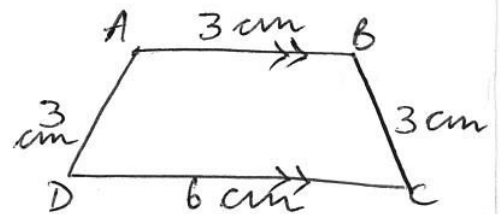


- ① Find length of hypotenuse of an isosceles right angled triangle have area 200 cm^2 . (Ans: $20\sqrt{2} \text{ cm}$)
- ② Using Heron's formula prove that the area of equilateral triangle of side x is $\frac{\sqrt{3}}{4} x^2$ also find it's altitude. (Ans: altitude = $\frac{\sqrt{3}}{2} x$)
- ③ Sides of a triangle are $x, (x+1), (2x-1)$ and area of triangle is $x\sqrt{10}$ find x . (Ans: $x=6$)
- ④ Find area of triangle whose sides are $11 \text{ m}, 60 \text{ m}$ and 61 m . Find smallest altitude also.
(Ans: area = 330 m^2
altitude = $\frac{660}{61} \text{ m}$)

- ⑤ Find area of shaded region.

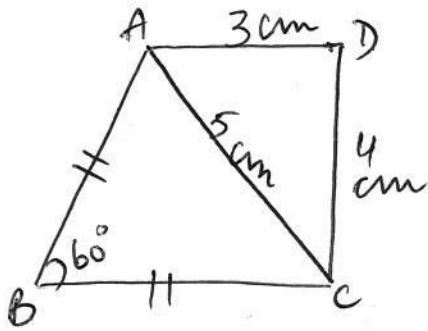


- ⑥ ABCD is a trapezium with $AB \parallel DC$. Find area of trap.
(Ans: $\frac{27\sqrt{3}}{4} \text{ cm}^2$)



- ⑦ How many times area is changed when sides of a triangle are doubled. (Ans: 4 times)
- ⑧ Perimeter of an isosceles triangle is 42 cm and its base is $\frac{3}{2}$ times of the equal sides. (i) Find length of each side (12, 12, 18)
(ii) Area : (Ans: $27\sqrt{2} \text{ cm}^2$)
(iii) Altitude on longest side (Ans: $3\sqrt{7} \text{ cm}$)

- (9) In quadrilateral ABCD ; $AB = BC$, $\angle B = 60^\circ$,
 $CD = 4$ cm, $AD = 3$ cm. Find area of ABCD
[$\sqrt{3} = 1.732$]



(ans: 16.825 cm^2)

- (10) semiperimeter of a triangle is 25 cm. One side is 4 cm longer than smallest and third side 6 cm less than twice of the smallest side. Find area of triangle. (ans: $20\sqrt{30} \text{ cm}^2$)