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INCENTER

1. In a triangle ABC, 'I' is the incenter, \angle	BIC= 111° , then \angle A=	:?
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C) 42° A) 52° B) 32° D) 44°

2. The perimeter of a triangle is 35 cm and Inradius is 4cm then the area of triangle is?

A) $45 \, \text{cm}^2$ B) $70 \, \text{cm}^2$ C) $60 \, \text{cm}^2$ D) $35 \, \text{cm}^2$

3. In a triangle ABC, I is a point which is equidistant from all sides of triangle if

 $\angle B=56^{\circ}$, then find $\angle AIB+\angle BIC=?$

4. The area of a triangle is 15 sq.cm and the radius of its incircle is 3 cm. Its perimeter is

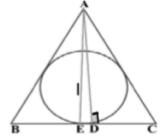
C) 5 cm A) 12 cm B) 20 cm D) 10 cm

It is given that the area of a triangle is A. The values of its perimeter, inradius, circumradius and the average of the lengths of the medians are respectively. p, r, R and d. The ratio A: p is equal to?

 $_{D) r: 2}$ $_{C) r: 1}$ $_{D)} (R-r)^2:r$ $_{A)}(R+r)^{2}:d$

6.In the given figure **EAD=12°**, **ACB=65°**

then find **ABC=?**



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B) 38° C) 89° D) 41° A) 53°

If the ratio of the sides of a triangle is 4:5:6 and inradius is 3cm then find the largest attitude

D) 45 B) 10 C) 11.5

In triangle ABC, AD is the angle bisector of $\angle A$, meets BC at D. If BC = a, AC = b and AB = C, then (BD - DC) = ?

b+cc) $\frac{a(c-b)}{c+b}$ $\frac{ab}{b+c}$

If O and I are the circumcenter and Incenter of triangle ABC respectively,

∠BOC=136°, then ∠BIC=?

B) 124° C) 106° A) 118° D) 121°

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10. In a triangle ABC, $\angle B=90^{\circ}$. AB = 18 cm and AC = 30 cm, then what is the value of Inradius of incircle?

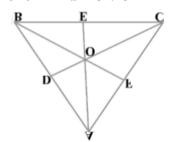
- A) 4cm
- B) 6cm
- C) 8cm
- D) 7cm
- 11. If 3 altitudes of a triangle are 3cm, 4cm and 5cm then what is the radius of incircle

- C) 2.5 cm
- D) 2 cm

12. The perimeter of **ABC** is 24 cm and its side BC = 9 cm. AD is the bisector of **BAC**, while I is the incentre. AI: ID is equal to

- A) 7:5
- B) 5:2
- C) 3:2
- D) 5:3

13. In the given figure O is the incentre of $\triangle ABC$. If AO : OE = 7 : 5, CO : OD = 4 : 3 then find BO: OF?



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14. A circle is inscribed in triangle ABC, touching AB at P, BC at Q and AC at R. If AR = 5 cm, RC = 6 cm and AB = 12 cm then perimeter of triangle ABC is?

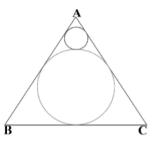
- A) 40 cm
- B) 32 cm
- C) 37 cm
- D) 36 cm

15. In $\triangle ABC$, AB = 13cm, BC = 14cm and AC = 15cm. I is the point equidistant from all three sides AB, BC, AC respectively then find the area of triangle BIC? A) 28

16. ABC is an equilateral triangle if Area of larger

circle is 1422cm² then area of smaller circle

(in cm²)?



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- A) 154
- B) 172
- C) 158
- D) 166

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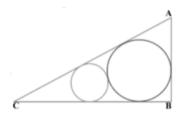
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17. In the given figure, ABC is a right angled triangle. ∠ABC=90° and ∠ACB=60°

If the radius of the smaller circle is 2 cm, then what is the radius (in cm) of the larger circle?



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A) 4

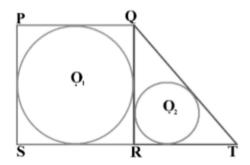
B) 6

C) 4.5

D) 7.5

18. In the given figure, PQRS is a square of side

20cm and SR is extended to point T. If the length of QT is 25cm, then what is the distance (in cm) between the centres O_1 and O_2 of the two circles?



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 $_{A)}\,5\sqrt{10}$

 $_{\rm B)} 4\sqrt{10}$

c) 8√5

 $_{\rm D)} 16\sqrt{2}$

19. In a triangle ABC, angle bisectors of exterior angle B and C intersect at P. If

 $\angle BPC=40^{\circ}$, then $\angle A=?$

A) 90°

B) 80°

C) 120°

D) 100°

20. In a **ABC**, AB = 13 cm, BC = 14 cm and

AC = 15 cm then find the radius of excircle made by bisectors of $\angle B$ and $\angle C$?

A) 12 cm

B) 15 cm

C) 7.5cm

D) 9cm

21. Find the ratio of inradius and exradius in an equilateral triangle?

A) 1:2

B) 1:3

C) 2:3

D) 3:4

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