1. The sides of a triangle are $56\text{cm}, 60\text{cm}$ and 52cm. Area of the triangle is

(a) 1322cm^2 (b) 1311cm^2 (c) 1344cm^2 (d) 1392cm^2

2. The edges of a triangular board are $6\text{cm}, 8\text{cm}$ and 10cm long. The cost of painting it at the rate of 9 paise per cm^2 is

(a) ₹ 2 (b) ₹ 2.16 (c) ₹ 2.48 (d) ₹ 3

3. The area of an equilateral triangle with side $2\sqrt{3}\,\text{cm}$ is

(a) 5.196cm^2 (b) 0.866cm^2 (c) 3.496cm^2 (d) 1.732cm^2

4. The perimeter of an equilateral triangle is 60m. The area is

(a) $10\sqrt{3}\,\text{m}^2$ (b) $15\sqrt{3}\,\text{m}^2$ (c) $20\sqrt{3}\,\text{m}^2$ (d) $100\sqrt{3}\,\text{m}^2$

5. The area of an isosceles triangle having base 2cm and the length of one of the equal sides 4cm, is

(a) $\sqrt{15}\,\text{cm}^2$ (b) $\frac{\sqrt{15}}{2}\text{cm}^2$ (c) $2\sqrt{15}\,\text{cm}^2$ (d) $4\sqrt{15}\,\text{cm}^2$

6. The length of each side of an equilateral triangle having an area

(a) 8cm (b) 36cm (c) 4cm (d) 6cm

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

(a) 48cm (b) 24cm (c) 12cm (d) 36cm

8. The sides of a triangle are $35\text{cm}, 54\text{cm}$ and 61cm respectively. The length of its longest altitude is

(a) $16\sqrt{5}\,\text{cm}$ (b) $10\sqrt{5}\,\text{cm}$ (c) $24\sqrt{5}\,\text{cm}$ (d) 28cm

9. If every side of a triangle is doubled, then increase in the area of the triangle, is

(a) $100\sqrt{2}\%$ (b) 200% (c) 300% (d) 400%

10. A square and an equilateral triangle have equal perimeters. If the diagonal of the square is $12\sqrt{2}\,\text{cm}$, then area of the triangle is

(a) $24\sqrt{2}\,\text{cm}^2$ (b) $24\sqrt{3}\,\text{cm}^2$ (c) $48\sqrt{3}\,\text{cm}^2$ (d) $64\sqrt{3}\,\text{cm}^2$

11. In a triangle, the average of any two sides is 6cm more than half of the third side. The area of the triangle is

(a) $64\sqrt{3}\,\text{cm}^2$ (b) $48\sqrt{3}\,\text{cm}^2$ (c) $72\sqrt{3}\,\text{cm}^2$ (d) $36\sqrt{3}\,\text{cm}^2$

12 If the sum of any two sides of a triangle exceeds the third by 6cm, the area of the triangle is

(a) $12\sqrt{3}\,\text{cm}^2$ (b) $18\sqrt{3}\,\text{cm}^2$ (c) $15\sqrt{3}\,\text{cm}^2$ (d) $9\sqrt{3}\,\text{cm}^2$

13. The perimeter of a right angled triangle is 72cm and its area is 216cm^2. The sum of the lengths of its perpendicular sides is

(a) 36cm (b) 32cm (c) 42cm (d) 50cm

14. If the perimeter of an isosceles triangle is 32cm and the ratio of the equal side to its base is 3: 2, then area of the triangle is

(a) $16\sqrt{2}\,\text{cm}^2$ (b) $20\sqrt{2}\,\text{cm}^2$ (c) $30\sqrt{2}\,\text{cm}^2$ (d) $32\sqrt{2}\,\text{cm}^2$

15. If the area of an equilateral triangle is $81\sqrt{3}\,\text{cm}^2$, then its semi-perimeter is

(a) 18cm (b) 36cm (c) 24cm (d) 27cm

16. If each side of an equilateral triangle of area A is doubled, then the area of new triangle is

(a) $2A$ (b) $4A$ (c) $8A$ (d) $6A$

17. The area of an equilateral triangle with altitude $2\sqrt{3}\,\text{cm}$ is

(a) $\frac{4}{\sqrt{3}}\text{cm}^2$ (b) $4\sqrt{3}\,\text{cm}^2$ (c) 4cm^2 (d) $\frac{8}{\sqrt{3}}\text{cm}^2$