

Mathematics

Class IX

Q.1) Find the value of $(5\sqrt{2} + 3\sqrt{3})(2\sqrt{2} - 5\sqrt{3})$

Q.2) The perimeter of an equilateral triangle is 60 m. Find its area .

Q.3) Evaluate $\frac{2^9}{5^0} + 7^0$

Q.4) Find four rational numbers between $\frac{1}{2}$ and $\frac{2}{5}$.

Q.5) Find the area of an isosceles triangle, each of whose equal sides measure 13cm and whose base is 24 cm.

Q.6) Convert the following in decimal form and write the kind of decimal expansion.

a) $\frac{264}{40}$

b) $7\frac{1}{9}$

Q.9) Mention the quadrants/axis in which the following points will lie

a) $(-2, -4)$

b) $(3, -5)$

c) $(0, -3)$

d) $(4, 0)$

Q.10) Express $0.\overline{237}$ in the form of $\frac{m}{n}$.

Q.11) A parallelogram has two sides 60 m and 25 m and a diagonal 65 m long. Find the area of the parallelogram.

Q.12) a) Rationalize $\frac{4}{\sqrt{7}+\sqrt{3}}$

b) Find the value of $(64)^{\frac{2}{3}}$

Q.14) Plot the following points in the Cartesian plane

A(5,0); B(3,2); C(0,-5) : D (-6 , 1); E(-4 , -4); F(2,-3)

Q.15) Line segments PQ and RS intersect at T and $\angle PRT = 40^\circ$, $\angle RPT = 95^\circ$ and $\angle TSQ = 75^\circ$, find $\angle SQT$.

Q.16) Find the Values of a and b if

$$\frac{3+\sqrt{2}}{3-\sqrt{2}} = a + b\sqrt{2}$$

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R Barnett



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