



INDIAN SCHOOL MUSCAT

SECOND PERIODIC ASSESSMENT

MATHEMATICS

CLASS: IX

Sub. Code: 041

Time Allotted: 50 min

17.11.2019

Max. Marks: 20

GENERAL INSTRUCTIONS:

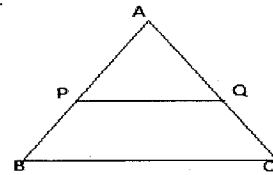
- Answer all the questions.
- Question numbers 1 to 4 carry 2 marks each.
- Question numbers 5 to 7 carry 4 marks each.

1. If the area of an equilateral triangle is $36\sqrt{3} \text{ cm}^2$, find its perimeter. 2

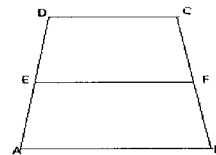
2. In parallelogram ABCD, if $\angle A = 72^\circ$, find $\angle B$, $\angle C$ and $\angle D$. (Give reason(s) for your answer) 2

3. Find the area of an isosceles triangle each of whose equal sides is 13 cm and base is 24 cm. 2

4. In the given fig. P and Q are the mid points of sides AB and AC of an equilateral triangle ABC. If $PQ = 4\text{cm}$ then find the perimeter of the triangle. (Give reason(s) for your answer) 2



5. In the given fig., ABCD is a trapezium in which $AB \parallel DC$ and E is the midpoint of AD. A line segment $EF \parallel AB$ meets BC at F. Show that F is the midpoint of BC. 4



6. A triangular park ABC has sides 105 m, 91 m and 98 m. A gardener, Ram wants to plant grass inside it. How much area does he need to plant? Find the cost of planting it at Rs 20 per m^2 . 4

7. The perimeter of a rhombus field is 260 m and one of its diagonals is 66 m. Find the area of the field. 4

End of the Question Paper



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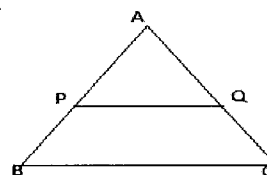
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1. In parallelogram ABCD, if $\angle A = 67^\circ$, find $\angle B$, $\angle C$ and $\angle D$. (Give reason(s) for your answer) 2

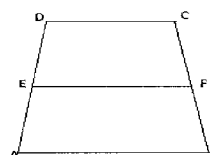
2. Find the area of an isosceles triangle each of whose equal sides is 13 cm and base is 24 cm. 2

3. In the given fig. P and Q are the mid points of sides AB and AC of an equilateral triangle ABC. If $PQ = 4\text{cm}$ then find the perimeter of the triangle. (Give reason(s) for your answer) 2



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

5. In the given fig., ABCD is a trapezium in which $AB \parallel DC$ and E is the midpoint of AD. A line segment $EF \parallel AB$ meets BC at F. Show that F is the midpoint of BC. 4



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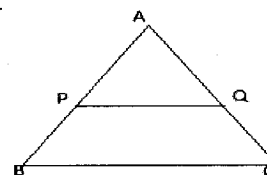
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1. Find the area of an isosceles triangle each of whose equal sides is 13 cm and base is 24 cm. 2

2. If the area of an equilateral triangle is $36\sqrt{3} \text{ cm}^2$, find its perimeter. 2

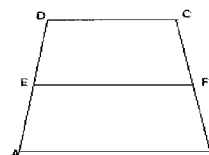
3. In the given fig. P and Q are the mid points of sides AB and AC of an equilateral triangle ABC. If $PQ = 4\text{cm}$ then find the perimeter of the triangle. (Give reason(s) for your answer) 2



4. In parallelogram ABCD, if $\angle A = 72^\circ$, find $\angle B$, $\angle C$ and $\angle D$. (Give reason(s) for your answer) 2

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