



Date: 23<sup>rd</sup> May, 2020 Sainik Coaching

Maths H.W

Read the given concept & content. Also understand and solve these 3 questions.

12

## AREA AND PERIMETER

The area of a plane figure is the surface enclosed by its sides. The unit of area is square metres.

**REMEMBER**

Area of a square = (Side)<sup>2</sup>  
Side of a square =  $\sqrt{\text{Area}}$   
Area of four walls = 2 (Length + Breadth) × Height  
Perimeter of a square = 4 × Side  
Side of a square =  $\frac{\text{Perimeter}}{4}$   
Area of a rectangular region = Length × Breadth  
Perimeter of a rectangular region = 2 (Length + Breadth)  
Length of a rectangle =  $\frac{\text{Area}}{\text{Breadth}}$   
Breadth of a rectangle =  $\frac{\text{Area}}{\text{Length}}$   
Diagonal of a rectangle  
=  $\sqrt{(\text{Length})^2 + (\text{Breadth})^2}$   
Volume of a cuboid = Length × Breadth × Height  
Area of all the six surfaces of a cuboid  
= 2 [l × b + b × h + l × h]  
Area of a semi-circle =  $\frac{1}{2} \pi r^2$   
Diameter of a circle = 2 × radius  
Perimeter of a circle = 2 π × radius  
Area of a circle = π × (radius)<sup>2</sup> = π r<sup>2</sup>  
Area of a triangle =  $\frac{1}{2}$  × base × height

Surfaces area of six faces = 6 l<sup>2</sup>  
Volume of a cube = l<sup>3</sup>

**SOLVED EXAMPLE**

1. A square garden is 46 m. long. Find its area and perimeter.  
**Solution:**  
∴ Area of a square = (Side) × (Side)  
∴ Area of the square = 46 × 46 m<sup>2</sup>  
= 2,116 m<sup>2</sup> Ans.  
∴ Perimeter of a square = 4 × Side  
∴ Perimeter of the square = 4 × 46 m.  
= 184 m. Ans.

2. The area of a rectangular region is 40,182 square metres. If its length be 362 m. find its perimeter.  
**Solution:**  
Breadth =  $\frac{\text{Area}}{\text{Length}}$   
=  $\frac{40,182}{362} = 111$  m  
∴ Perimeter = 2 (Length + Breadth)  
= 2 (362 + 111)  
= 946 m. Ans.

3. Find the area of a rectangular field whose length is 35 metres and breadth is 25 metres.  
**Solution:-**  
Length = 35 m. ; Breadth = 25 m.  
Area of the rectangular field = 35 × 25  
= 875 m<sup>2</sup> Ans.

4. Find the area and perimeter of rectangle with sides of 9 cm. and 3 cm.  
**Solution:**  
Length of rectangle = 9 cm.

61

## Subject: Hindi

### विलोम शब्द

201. कंपन - स्थिर

202. कई - एक

203. कगार - मँझधार

204. कटरा - कटरी

205. कटुता - मधुरता

206. कटुक्ति - सूक्ति

207. कट्टर - उदार

208. कठिन - सरल

209. कठोर - कोमल

210. कड़वा - मीठा

211. कथन - चुप्पी

212. कथ्य - अकथ्य

213. कद्रदान - नाकद्र

214. कनिष्ठ - वरिष्ठ

215. कपट - निष्कपट

216. कपाल - पद

217. कड़ा - मुलायम

218. कड़ाह - कड़ाही

219. कम - ज्यादा

220. कमखर्च - खर्चीला

221. कमीना - भला

222. करतल - पदतल

223. करार - बेकरार

224. कपूत - सपूत

225. कबूलना - नकारना

226. कर्जदार - महाजन

227. कर्ण कटु - कर्ण प्रिय

228. कर्मशाला - विश्रामशाला

229. कर्मशील - कर्महीन

230. कलंक - निष्कलंक

231. कलकल - शांत

232. करीना - बेढंग

233. करुण - निष्ठुर

234. कृश - स्थूल

235. ग्राम्य - शिष्ट

236. गजब - सामान्य

237. गठित - अगठित

238. गठियाना - खोलना

239. गठीला - ढीला

240. गड़ना - निकलना



## Subject: English

### To understand and fill exercise.

Fill in the blanks with the correct form of the verbs given in the brackets in the present continuous tense:

1. The home team ..... well in the tournament. (play)
2. Who ..... in my bed? (lie)
3. The government ..... sincere efforts to solve our problems. (make)
4. What ..... these days? (you, write)
5. I ..... in this house any longer. (not live)
6. The squirrel ..... the nuts in a hole in the tree. (hide)
7. Mr. Bansal ..... extra classes for children weak in English. (take)
8. Who ..... for? (they, wait)
9. How many teams ..... in the debate competition? (participate)
10. Why ..... today? (the farmers, not work)

I. Fill in the blanks with present perfect form of the verbs given in the brackets:

1. Mrs. Arora ..... (host) the party.
2. The children ..... already ..... (finish) decorating the classroom for Teacher's Day.
3. Mr. Patil ..... (be) to Singapore several times during the last six months.
4. The Municipal Corporation ..... (reply) to my letter regarding the removal of garbage.
5. .... you ..... (invite) all your colleagues from the office?
6. .... Vikas ..... (submit) the project yet?
7. The baby ..... (sleep) for a long time.
8. Mr. and Mrs. Gupta ..... (go) to New Jersey to visit their daughter.
9. Simran ..... (draw) the picture which won the first prize.
10. My grandmother ..... (tell) me a funny story about Tenali Raman.

II. Fill in the blanks with the present perfect continuous form of the verbs given in the brackets:

1. She ..... cricket for three hours. She must be exhausted now. (play)
2. My father ..... to his boss on phone since 8.00 p.m. (talk)
3. My grandmother ..... (knit)
4. Please open the door. Someone ..... at the door since evening. (knock)