

* Define mortar? and it's characteristics?

Ans: Mortar!

Mortar is a workable paste used to bind building block such as stone, bricks, and concrete masonry units etc together fill and set the regular between them.

Ans: Properties (Characteristics) of good mortar:

→ Provides good adhesion to building units (bricks, stones etc).

→ Mortar should be water resistance.

→ Deformability should be low.

→ Mortar should be cheap.

→ Mortar should be easily workable in the site condition.

→ It should possess high durability.

→ The mobility of mortar should be good.

To improve the speed of construction good mortar should set quickly.

→ Less tendency to shrink very little.

* Explain use of mortar? (Application)

→ Painting and plastering the structure.

→ It is used to bind the wall (brick, stone).

→ It is used to reduce the cavities in wall.

→ It is used to reduce the noise level.

→ It is used to have good appearance of building.

→ It is used for molding and ornamental purpose.

→ It is used to fill up the spaces between bricks and stones for making wall light.

→ It is used to fill up the spaces between stones.

→ It is used in concrete as a material.

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* How would you prepare concrete & mortar?

Ans: Preparation of concrete & hand mixing

→ It is prepared when quantity of concrete is in sufficient for machine necessity of:-

i) The machine is not available to the place.

ii) The noise is not desirable and any region where machine use is not use.

* By machine mixing.

The machine use for mixing concrete are common in use.

a) Continuous mixer: continuous mixer are employed in massive construction where a large and continuous flow of concrete is desired.

b) Batch mixer: In batch type of concrete mix the desired proportion of material are fed into hoppers of drum in which materials get mixed by blades.

Ans: Preparation process of mortar:

i) Cement and sand in specified proportion are poured into drum of mixer & required quantity of water is added in revolving drum.

ii) The drum is then required revolved for a sufficient period of time to form uniform mixture of required consistency.

iii) The mixed mortar is then poured out for use.

Note: method except iii) named as machine made mortar.

* Explain sewage vs drainage?

l) The two words, which are often used in the field of hydraulics, are drainage system & sewage system.

→ The must be a proper system to send out excess waste waters in any country.

→ The process, by which waste matters carried away by sewers, is known as sewage.

→ A system of watercourse or drain for carrying off excess water is known as the drainage system.

* Surface drainage:

A simple surface drainage is the removal of excess water from the surface of the land in a controlled manner and quickly as possible to an artificial drainage system.

→ This is normally accomplished by shallow ditches, also called open drains.

* Combined drainage system:

Combined drainage system implies the system of horizontal drains (open or closed) with vertical walls.

→ Combined drainage system is used in the cases when vertical and horizontal drainage cannot provide required capture of ground-water.

* Connection & fitting:

The fitting used for collection and discharge of soil or waste matters is termed as sanitary fittings.

→ A fitting or adapter is used in pipe system to connect straight section of pipe to tube adapt to different sizes or shapes and for other purposes such as regulating and fluid filter.

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25 * Explain different types of doors?

1) Hollow metal doors.

2) Rolling steel shutter doors.

3) wire gauged doors.

4) Slid core plus doors.

5) Fluted doors.

6) Glazed doors.

7) Louvered doors.

8) Revolving doors:- Revolving doors are only providing public buildings like banks, libraries, museums, and hotel, airport, mous etc... because of constant visitors.

9) Sliding door:- This door are generally used where there is place constraint for the swing of a hinged door or for aesthetic purpose.

10) Swing doors:- Swinging doors are same as hinged doors, but here the hinge can be rotated in either direction.

11) A door that can be opened in either direction and is closed by a spring device when released.

length of chain (L) = 20m
error (E) = 0.05m
faulty length of chain (L') = 20 + 0.05
= 20.05m

measured distance of chain (md) = 1200m
true length of two station (T₀) = $\frac{1}{x} \times md$,

= 20.05×1200
= 24.06m

for chain 20m

length of chain (L) = 20m
measured distance (md) = 1000m

faulty length of chain (L') = 30 + 0.05
= 30.05m

true length of survey (T₀) = $\frac{1}{x} \times md$

= 30.05×1000
= 30.05m

for chain 20m

length of chain (L) = 20m
measured distance (md) = 1100m

faulty length of chain (L') = 20 + 0.05
= 20.05m

true length of survey (T₀) = $\frac{1}{x} \times md$

= 20.05×1100
= 22.05m

for chain 20m

length of chain (L) = 20m
measured distance (md) = 1150m

(T₀) = 1150m

length of chain (L) = 20m
measured distance (md) = 1195m

(T₀) = 1195m

length of chain (L) = 20m
measured distance (md) = 1203m

(T₀) = 1203m

length of chain (L) = 20m
measured distance (md) = 1206.6m

(T₀) = 1206.6m

length of chain (L) = 20m
measured distance (md) = 1208.33m

(T₀) = 1208.33m

length of chain (L) = 20m
measured distance (md) = 1210m

(T₀) = 1210m

length of chain (L) = 20m
measured distance (md) = 1212.33m

(T₀) = 1212.33m

length of chain (L) = 20m
measured distance (md) = 1214m

(T₀) = 1214m

length of chain (L) = 20m
measured distance (md) = 1216.6m

(T₀) = 1216.6m

length of chain (L) = 20m
measured distance (md) = 1218.33m

(T₀) = 1218.33m

length of chain (L) = 20m
measured distance (md) = 1220m

(T₀) = 1220m

length of chain (L) = 20m
measured distance (md) = 1222.33m

(T₀) = 1222.33m

length of chain (L) = 20m
measured distance (md) = 1224m

(T₀) = 1224m

length of chain (L) = 20m
measured distance (md) = 1226.6m

(T₀) = 1226.6m

length of chain (L) = 20m
measured distance (md) = 1228.33m

(T₀) = 1228.33m

length of chain (L) = 20m
measured distance (md) = 1230m

(T₀) = 1230m

length of chain (L) = 20m
measured distance (md) = 1232.33m

(T₀) = 1232.33m

length of chain (L) = 20m
measured distance (md) = 1234m

(T₀) = 1234m

length of chain (L) = 20m
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(T₀) = 1236.6m

length of chain (L) = 20m
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(T₀) = 1238.33m

length of chain (L) = 20m
measured distance (md) = 1240m

(T₀) = 1240m

length of chain (L) = 20m
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(T₀) = 1242.33m

length of chain (L) = 20m
measured distance (md) = 1244m

(T₀) = 1244m

length of chain (L) = 20m
measured distance (md) = 1246.6m

(T₀) = 1246.6m

length of chain (L) = 20m
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(T₀) = 1248.33m

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(T₀) = 1250m

length of chain (L) = 20m
measured distance (md) = 1252.33m

(T₀) = 1252.33m

length of chain (L) = 20m
measured distance (md) = 1254m

(T₀) = 1254m

length of chain (L) = 20m
measured distance (md) = 1256.6m

(T₀) = 1256.6m

length of chain (L) = 20m
measured distance (md) = 1258.33m

(T₀) = 1258.33m

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(T₀) = 1260m

length of chain (L) = 20m
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(T₀) = 1262.33m

length of chain (L) = 20m
measured distance (md) = 1264m

(T₀) = 1264m

length of chain (L) = 20m
measured distance (md) = 1266.6m

(T₀) = 1266.6m

length of chain (L) = 20m
measured distance (md) = 1268.33m

(T₀) = 1268.33m

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(T₀) = 1270m

length of chain (L) = 20m
measured distance (md) = 1272.33m

(T₀) = 1272.33m

length of chain (L) = 20m
measured distance (md) = 1274m

(T₀) = 1274m

length of chain (L) = 20m
measured distance (md) = 1276.6m

(T₀) = 1276.6m

length of chain (L) = 20m
measured distance (md) = 1278.33m

(T₀) = 1278.33m

length of chain (L) = 20m
measured distance (md) = 1280m

(T₀) = 1280m

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(T₀) = 1282.33m

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(T₀) = 1284m

length of chain (L) = 20m
measured distance (md) = 1286.6m

(T₀) = 1286.6m

length of chain (L) = 20m
measured distance (md) = 1288.33m

(T₀) = 1288.33m

length of chain (L) = 20m
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(T₀) = 1290m

length of chain (L) = 20m
measured distance (md) = 1292.33m

(T₀) = 1292.33m

length of chain (L) = 20m
measured distance (md) = 1294m

(T₀) = 1294m

length of chain (L) = 20m
measured distance (md) = 1296.6m

(T₀) = 1296.6m

length of chain (L) = 20m
measured distance (md) = 1298.33m

(T₀) = 1298.33m

length of chain (L) = 20m
measured distance (md) = 1300m

(T₀) = 1300m

length of chain (L) = 20m
measured distance (md) = 1302.33m

(T₀) = 1302.33m

length of chain (L) = 20m
measured distance (md) = 1304m

(T₀) = 1304m

length of chain (L) = 20m
measured distance (md) = 1306.6m

(T₀) = 1306.6m

length of chain (L) = 20m
measured distance (md) = 1308.33m

(T₀) = 1308.33m

length of chain (L) = 20m
measured distance (md) = 1310m

(T₀) = 1310m

length of chain (L) = 20m
measured distance (md) = 1312.33m

(T₀) = 1312.33m

length of chain (L) = 20m
measured distance (md) = 1314m

(T₀) = 1314m

length of chain (L) = 20m
measured distance (md) = 1316.6m

(T₀) = 1316.6m

length of chain (L) = 20m
measured distance (md) = 1318.33m

(T₀) = 1318.33m

length of chain (L) = 20m
measured distance (md) = 1320m

(T₀) = 1320m

length of chain (L) = 20m
measured distance (md) = 1322.33m

(T₀) = 1322.33m

length of chain (L) = 20m
measured distance (md) = 1324m

(T₀) = 1324m

length of chain (L) = 20m
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(T₀) = 1326.6m

length of chain (L) = 20m
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(T₀) = 1328.33m

length of chain (L) = 20m
measured distance (md) = 1330m

(T₀) = 1330m

length of chain (L) = 20m
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(T₀) = 1332.33m

length of chain (L) = 20m
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(T₀) = 1334m

length of chain (L) = 20m
measured distance (md) = 1336.6m

(T₀) = 1336.6m

length of chain (L) = 20m
measured distance (md) = 1338.33m

(T₀) = 1338.33m

length of chain (L) = 20m
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(T₀) = 1340m

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length of chain (L) = 20m
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(T₀) = 1344m

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(T₀) = 1346.6m

length of chain (L) = 20m
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(T₀) = 1348.33m

length of chain (L) = 20m
measured distance (md) = 1350m

(T₀) = 1350m

length of chain (L) = 20m
measured distance (md) = 1352.33m

(T₀) = 1352.33m

length of chain (L) = 20m
measured distance (md) = 1354m</p