

2. Conversions Of Units

2.1 Number of zeroes in

1 lakh = 5 = 100,000
million = 6 = 1,000,000
1 crore = 7 = 10,000,000
billion = 9 = 1,000,000,000

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2.2 Linear Measures (Metric)

1. 10 millimeters (mm) = 1 centimeter (cm)
2. 10 centimeters = 1 decimeter (dm)
3. 10 decimeters = 1 meter (m or M)
4. 10 meters = 1 Decameter (Dm)
5. 10 decameter = 1 hectometer (hm)
6. 10 hectometers = 1 kilometer (km) = 1000 m = 100,000 cm

British

1. 12 inches (in) = 1 foot (ft)

$$2.3 \text{ feet} = 1 \text{ yard (yd)}$$

$$3.220 \text{ yards} = 1 \text{ furlong}$$

$$4.8 \text{ furlongs} = 1 \text{ mile} = 1760 \text{ yards} = 5280 \text{ ft}$$

Relationship

$$1.1 \text{ inch} = 2.54 \text{ cm}$$

$$2.1 \text{ km} = 5 \text{ furlongs}$$

$$3.1 \text{ mile} = 1600 \text{ m}$$

$$4.1 \text{ meter} = 1.1 \text{ yards} = 3.39 \text{ ft}$$

$$5.1 \text{ mile} = 1.6 \text{ km} = 1600 \text{ meters}$$

2.3 Area Measures:

Metric

$$1.1 \text{ hectare} = 1 \text{ sq. hm} = 10,000 \text{ Sq. m}$$

British

$$1.1 \text{ acre} = 4840 \text{ sq. yards} = 40,000 \text{ sq ft.}$$

$$2.1 \text{ are} = 120 \text{ sq. yards}$$

$$3.40 \text{ ares} = 1 \text{ acre}$$

$$4.1 \text{ cent} = 440 \text{ sq ft.}$$

Relationship

$$1.1 \text{ hectare} = 2.5 \text{ acres}$$

2.4 Volume Measures:

Metric

1. 1 cubic centimeter (cc) = ₁ milliliter (ml).
2. 10 ml = 1 centilitre (c).
3. 10 cl = 1 decilitre (dl).
4. 10 dl = 1 litre (L or l) = 1000 ml = 1000 cc.
5. 1000 litres = 1 kilolitre (Kl).

British

1. 20 ounces (oz) = 1 pint
2. 8 pints = 1 gallon

Relationship

1. 1 gallon = 4.55 litres or 1 litre = 0.22 gallon.

2.5 Weight Measures:

Metric

1. 10 milligrams (mg) = 1 centigram (cgm)
2. 10 centigrams = 1 decigram (dgm)
3. 10 decigrams = 1 gram (gm)
4. 10 grams = 1 Decagram (Dgm)
5. 10 Decagrams = 1 hectogram (hgm)

6. 10 hectograms = 1 kilogram (kg) = 1000 gm

7. 100 kg = 1 quintal

8. 10 quintals = 1 metric ton = 1000 Kg

British

1. 12 ounce (oz) = 1 pound (b)

2. 14 pounds = 1 quarter (gr)

3. 4 quarters = 1 hundred weight (cwt)

4. 20 hundred weights = 1 ton

5. 1 ton = 2240 pounds

2.6 Speed Measures:

Metric

1 km = 1000 meters

1 hr = 3600 seconds

$1 \text{ km/hr} = \frac{1 \times 1000}{1 \times 3600} \frac{5}{18} \text{ m/sec}$

British

1 mile = 1760 yards

1 yard = 3 feet

1 mile = 5280 feet

$1 \text{ mph} = \frac{1 \times 1760}{1 \times 3600} \frac{22}{45} \text{ yards/sec}$

$1 \text{ mph} = \frac{1 \times 5280}{1 \times 3600} \frac{22}{15} \text{ ft/sec}$