



PHYSICS

BOOKS - BEIITIANS

MEASUREMENT

Formative Worksheet

1. What do we need to measure physical quantities accurately?

A. Standard units

B. Standard instruments

C. Both (A) and (B)

D. None of these

Answer:



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2. Measurement has two parts they are?

A. number and unit

B. unit and number

C. direction and unit

D. direction and number

Answer:



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3. The standard used to measure a certain Physical quantity is

A. Unit

B. Scale

C. Both (1, (B)

D. None of these

Answer:



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4. Pace or a footstep is a

- A. MKS unit of length
- B. CGS unit of length
- C. FPS unit of length
- D. Non standard unit of length

Answer:



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5. Statement-I: Cubit is a standard unit

Statement II: 10 Kilometre= 1000 metre

- A. Statement I is true , Statement II is true
- B. Statement I is true , Statement II is false
- C. Statement I is false , Statement II is true
- D. Statement I is false , Statement II is false

Answer:



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6. Statement I: Micro, milli, etc., are to be used as prefixes for metre only.

Statement II: Kilogram is a standard unit.

- A. Statement I is true , Statement II is true
- B. Statement I is true , Statement II is false
- C. Statement I is false , Statement II is true
- D. Statement I is false , Statement II is false

Answer:



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7. Basic (or) fundamental measurements are?

- A. Length, Mass and Time
- B. Length, Area and Time
- C. Length, density and Time
- D. Density, volume and Time

Answer:



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8. M.K.S system is also named as?

A. Metric system

B. C.G.S system

C. British system

D. S.I. system

Answer:



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9. In decreasing magnitude which of the following is correct?

A. km, cm, m, mm

B. km, m, cm, mm

C. m, km, cm, mm

D. km, cm, mm, m

Answer:



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10. The number of rounds of a wire around a pencil are 24 and the length of the coil is 4.8cm then what is the diameter of wire?

A. 24 cm

B. 2.4 cm

C. 20 cm

D. 0.2 cm

Answer:



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11. The distance between Radha's home and her school is 3250 m. Express this distance into km.

A. 32.5 km

B. 3.25 km

C. 0.325 km

D. 0.0325 km

Answer:



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12. The height of a person is 1.65 m. Express this value in mm.

A. 16.5 mm

B. 165 mm

C. 1650 mm

D. 16500 mm

Answer:



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13. While measuring the diameter of the ball, the inner edges of the wooden block stood at 3.4cm and 4.7cm on a scale. Calculate the diameter of the ball?

A. 1.3 cm

B. 7.7 cm

C. 0.13 cm

D. 0.77 cm

Answer:



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14. Fill in the blanks

A. 1 cm =---- mm

B. 1 dm =---- metre

C. 1 kilometre =---- metre

D. 1 metre = ----centimetre

Answer:



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15. Fill in the blanks with $<$ or $>$ sign.

A. 1 decametre ---1 decimetre

B. 1 millimetre--- 1 centimetre

C. 1 hectometre ---1 kilometre

D. 1 decimetre ---1 centimetre

Answer:



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16. What is the area of rectangular graph paper having 6cm length and 5cm width?

A. 11cm^2

B. 1cm^2

C. 30cm^2

D. 60cm^2

Answer:



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17. The length of a school compound is 450m and breadth is 145m. The area of the school compound in hectares is _____

A. 6525 hectare

B. 652.5 hectare

C. 65.25 hectare

D. 6.525 hectare

Answer:



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18. $1m^2 = \underline{\hspace{2cm}}$ hectare

1 hectare = $\underline{\hspace{2cm}}$ km^2

$1mm^2 = \underline{\hspace{2cm}}$ km^2

A. $x = 10^{-6}$, $y = 10^{-4}$, $z = 10^{-2}$

B. $x = 10^{-4}$, $y = 10^{-2}$, $z = 10^{-6}$

C. $x = 10^{-2}$, $y = 10^{-4}$, $z = 10^{-6}$

D. $x = 10^{-4}$, $y = 10^{-6}$, $z = 10^{-2}$

Answer:



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19. A school hall measure 20 m in length and 12 m in breadth. Find the area of the school hall.

A. $1200m^2$

B. $120m^2$

C. $240m^2$

D. $2400m^2$

Answer:



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20. Find the volume of cuboid of dimensions 5cm, 4cm and 3cm?

A. 60cm^3

B. 120cm^3

C. 240cm^3

D. 480cm^3

Answer:



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21. A measuring cylinder has 75cm^3 of water, when a stone is dropped water level rises to 125cm^3 .

What is the volume of stone?

A. 25cm^3

B. 50cm^3

C. 75cm^3

D. 100cm^3

Answer:



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22. A stone of volume 50cm^3 lowered into 80cm^3 of water in a measuring jar. Then what will be the new reading in measuring jar?

A. 15cm^3

B. 30cm^3

C. 45cm^3

D. 60cm^3

Answer:



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23. The volume of a rectangular slab is 12cm^3 . The length and breadth of the slab are 3 cm and 2 cm respectively. Find its height.

A. 10 cm

B. 8 cm

C. 4 cm

D. 2 cm

Answer:



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24. A boy has purchased a toy, which is in the form of a cuboid. The cuboid has the following dimensions: $0.003km \times 0.03m \times 3cm$. What is volume of this cuboid?

- A. $900cm^3$
- B. $1800cm^3$
- C. $2700cm^3$
- D. $3600cm^3$

Answer:



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25. When a stone is lowered into a measuring cylinder the volume is 9.3 ml. The volume of the stone is 5.8 ml. Find the initial volume of water in the measuring cylinder.

A. 3.5 ml

B. 5 ml

C. 6.5 ml

D. 8.5 ml

Answer:



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26. Express 5cm^3 in terms of cubic millimetres

A. 500mm^3

B. 5000mm^3

C. 50mm^3

D. 0.5mm^3

Answer:



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27. One quintal = _____ ton.

A. 10

B. 100

C. 0.1

D. 0.01

Answer:



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28. 1 metric tonne= _____ milligram.

A. 10^3

B. 10^6

C. 10^9

D. 10^{12}

Answer:



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29. 1 micro second = 10^x milliseconds. Find x.

A. + 1

B. + 3

C. - 1

D. - 3

Answer:



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30. 1 kg = _____ tonne.

A. 100

B. 1000

C. 10^{-3}

D. 10^{-2}

Answer:



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31. A truck of weigh 4.4 tonnes. Its value in kg?

A. 4400 kg

B. 440 kg

C. 44 kg

D. 4.4 kg

Answer:



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32. How many seconds are equal to 6 hours 8 min?

A. 86400 sec

B. 43200 sec

C. 1296480 sec

D. 648240 sec

Answer:



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Conceptive Worksheet

1. Pick the odd man out:

A. Length

B. Metre

C. Yard

D. Cubit

Answer:



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2. Number of fundamental physical quantities in M.K.S system are

A. Two

B. Three

C. Seven

D. Six

Answer:



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3. Cubit is a

A. MKS unit of length

B. CGS unit of length

C. FPS unit of length

D. Non standard unit of length

Answer:



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4. Which of the following is the largest unit of length ?

A. Decimetre

B. Centimetre

C. Millimetre

D. Metre

Answer:



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5. F.P.S stands for

- A. Foot, pound, second
- B. France, Parish, Spain
- C. Force, pressure, second
- D. Foot, Pace, Second

Answer:



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6. C.G.S stands for

A. Centimetre, gravitation, second

B. Centisecond, gram, second

C. Centimetre, gram, second

D. None of these

Answer:



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7. Multiples and submultiples of units.

A. Are specific numerical values

B. Are used as prefixes

C. Both (A) and (B)

D. None of these

Answer:



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8. Micro means

A. unit of time

B. 10,00,000

C. $\frac{1}{10,00,000}$

D. $\frac{1}{\text{milli}}$

Answer:



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9. Pick the odd man out:

A. milli

B. kilo

C. micro

D. centimetre

Answer:



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10. What is the SI unit of length?

A. Metre

B. Centimetre

C. Kilometre

D. All of these

Answer:



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11. 4 kilometre are equal to

A. 4,00,000 metre

B. 40,000 metre

C. 4,000 metre

D. 400 metre

Answer:



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12. 15 cm are equal to

A. 150 mm

B. 15 mm

C. 1.5 mm

D. 0.15 mm

Answer:



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13. Which is a correct relationship?

A. $1 \text{ m} = 100 \text{ cm}$

B. $1 \text{ cm} = 10 \text{ mm}$

C. $1 \text{ km} = 1000 \text{ m}$

D. all the correct

Answer:



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14. 1 cm = _____ kilometre

A. 100

B. 10^5

C. 10^{-5}

D. 10^{-2}

Answer:



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15. Arrange the following lengths in their increasing magnitude:

1 metre, 1 centimetre, 1 kilometre, 1 millimetre.

A. 1 centimetre < 1 millimetre < 1 kilometre
< 1 metre

B. 1 millimetre < 1 centimetre < 1 metre <
1 kilometre

C. 1 kilometre < 1 metre < 1 centimetre <
1 millimetre

D. none

Answer:



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16. 1 Angstrom = _____?

A. $10^{-10}m$

B. $10^{-8}m$

C. $10^{-6}m$

D. $10^{-10}cm$

Answer:



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17. 1AU = ?

A. $1.496 \times 10^{11} m$

B. $1.496 \times 10^9 cm$

C. $1.496 \times 10^8 m$

D. $1.444 \times 10^6 m$

Answer:



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18. The size of bacteria is generally measured in microns. The micrometer (μm), is often called the micron. How many microns make up 1 kilometer?

A. 10^3

B. 10^6

C. 10^9

D. 10^{12}

Answer:



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19. Least count of a metre scale is?

A. 1cm

B. 0.1mm

C. 0.1cm

D. 0.01mm

Answer:



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20. Area of 1sqcm is?

A. $100mm^2$

B. $1000mm^2$

C. $10mm^2$

D. $10,000mm^2$

Answer:



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21. How many small squares are there in $1sq.cm$?

A. 1000

B. 100

C. 10

D. 1

Answer:



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22. To measure irregular areas _____ paper is used.

A. Graph paper

B. Scale

C. Using formula

D. Tape

Answer:



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23. The area of the land is $100m^2$ here m^2 stands for

- A. Numerical value of area
- B. Unit of area
- C. Both (A) and (B)
- D. None of these

Answer:



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24. $1\text{km}^2 = \underline{\hspace{2cm}}$

- A. 1 hectare
- B. 10 hectares
- C. 100 hectares
- D. 1000 hectares

Answer:



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25. 1 hectare= _____

A. $1000m^2$

B. $10000m^2$

C. $100000m^2$

D. $100m^2$

Answer:



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26. The space inside a regular or irregular objects is known as?

A. Area

B. Volume

C. Mass

D. Length

Answer:



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27. The SI unit of volume is:

A. cm^3

B. m^3

C. ml^3

D. l^3

Answer:



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28. 1cubic meter is?

A. $10^6 cc$

B. $10^4 cc$

C. $10^3 cc$

D. $10^9 cc$

Answer:



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29. In laboratories to take specific volume of liquid we use?

- A. Pipette
- B. Burette
- C. Measuring jar
- D. Measuring vessel

Answer:



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30. 1 litre = ?

A. 1000cc

B. 1000cm

C. 100ml

D. 100cm

Answer:



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31. The space occupied by a substance is called _____

A. Area

B. Length

C. Volume

D. None of these

Answer:



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32. The SI unit of volume is:

A. Cubic centimetre

B. Cubic millimetre

C. Cubic metre

D. Cubic litre

Answer:



Watch Video Solution

33. One cubic metre is equal to _____

A. 10^6 cc

B. 10^4 cc

C. 10^3 cc

D. 10^9 cc

Answer:



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34. The volume occupied by a cube whose each side is equal to 1 cm is called

A. Cubic centimetre

B. Cubic millimetre

C. Cubic metre

D. None of these

Answer:



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35. 1 mean solar day = ?

A. 365days

B. 10years

C. 24hours

D. 60minutes

Answer:



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36. Which of the following measurement have not correct expression in S.I unit?

A. 51 cm cloth

B. 20sec of time

C. Surface area 40cm^2

D. 2kg water

Answer:



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37. 1 quintal = ?

A. 100kg

B. 1000kg

C. 10kg

D. 500kg

Answer:



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38. If the Charminar superfast express staying 00 hours in Warangal, then the time is 12 hour clock is

- A. 12 0' clock at night
- B. 12 0' clock at noon
- C. 18 0' clock at night
- D. 18 0' clock at noon

Answer:



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39. A passenger goes to Secunderabad railway station. He asked the enquiry counter, When did Tirumala express come? The enquiry counter person replied 18 hour 15 minutes. Then the time in his 12-hour clock was _____

- A. 5 hour - 45 minutes AM
- B. 5 hour - 45 minutes PM
- C. 6 hour - 15 minutes AM
- D. 6 hour - 15 minutes PM

Answer:



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Summative Worksheet

1. Statement I: A thread is enough to measure a curved line.

Statement II: A scale is enough to measure a curved line.

- A. Statement I is true , Statement II is true
- B. Statement I is true , Statement II is false
- C. Statement I is false , Statement II is true
- D. Statement I is false , Statement II is false

Answer:



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2. To measure the length of a curved line, which of the following materials are needed?

- A. Cotton thread
- B. Measuring scale
- C. Common balance
- D. Watch

Answer:



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3. In which of the following, are indirect methods of measurement used?

- A. Measuring thickness of a wire
- B. Measuring thickness of a coin or plate
- C. Measuring length of table
- D. All

Answer:



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4. Metre scales have _____ ends to avoid error due to _____

- A. Cylindrical, Volume of the scale
- B. Tapered, thickness of the scale
- C. Tapered, Area of the scale
- D. Cylindrical, Area of the scale

Answer:



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5. $1\text{cm}^2 = \text{-----}$

A. 10^{-10}km^2

B. 10^{-8} hectare

C. 10^{-4}m^2

D. all of these

Answer:



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6. $1\text{m}^2 = \text{-----}$

A. $10^{-6} km^2$

B. 10^{-4} hectare

C. 10^{-2} are

D. all of these

Answer:



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7. When do we say that a bucket is bigger than a cup?

- A. When the volume of cup is greater than the volume of bucket
- B. When the volume of bucket is greater than the volume of cup
- C. When the volume of bucket is equal to the volume of cup
- D. We can't say

Answer:



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8. Pick the odd man out.

A. mega

B. kilo

C. tonne

D. hecta

Answer:



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9. The length of a school compound is 450m and breadth is 145m. The area of the school compound in hectares is _____

- A. 6.525 hectares
- B. 65.25 hectares
- C. 0.6525 hectares
- D. 652.5 hectares

Answer: A



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10. If an aeroplane is scheduled to take off at 18 hours -57 minutes, then time in PM on a 12-hour clock is _____

- A. 12 - hour - 57 minute AM
- B. 12 - hour - 57 minute PM
- C. 6 - hour - 57 minute AM
- D. 6 - hour - 57 minute PM

Answer:



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1. Under the spout of over flow jar, place a measuring cylinder. Gently lower a stone in the over flow jar. The stone displaces water which flows out from the spout into the measuring cylinder. If the reading on the overflow jar is 12ml, then the volume of stone is _____

A. $12 \times 10^{-5} m^3$

B. $1.2 \times 10^{-5} m^3$

C. $0.12 \times 10^{-5} m^3$

D. $0.012 \times 10^{-5} m^3$

Answer:



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2. One millenium is equal to how many decades?

A. 10

B. 100

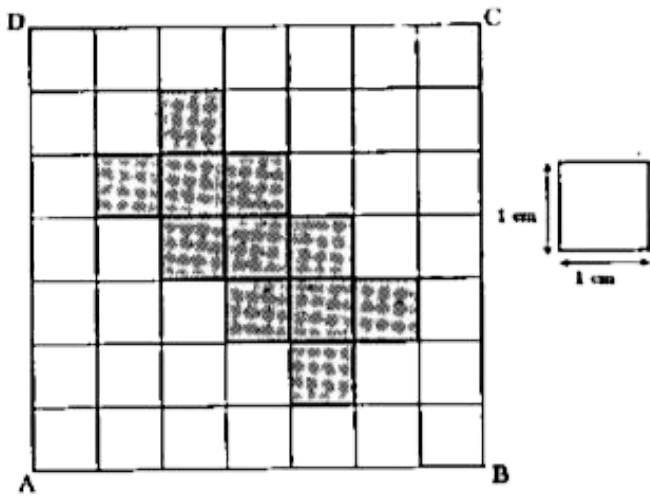
C. 1000

D. 10000

Answer:



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Let ABCD be a centimetre graph paper. The area of darkened surface on the graph paper is

A. $8cm^2$

B. $11cm^2$

C. $9cm^2$

D. 10cm^2

Answer:



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4. If the time on a 12-hour clock is 3 hours -45 min PM, then time on 24-hour clock is _____

- A. 15 hour - 45 minutes
- B. 15 hour - 12 minutes
- C. 6 hour - 57 minutes
- D. 12 hours

Answer:



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5. 1 day= _____millennium

A. $\frac{1}{165000}$

B. $\frac{1}{265000}$

C. $\frac{1}{46400}$

D. $\frac{1}{365000}$

Answer:



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6. 1 decade = _____ minutes

A. 52.56×10^6

B. 5.256×10^6

C. 525.6×10^6

D. 5256×10^6

Answer:



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7.1 year= _____seconds

A. 315.36×10^6

B. 3.1536×10^6

C. 31.536×10^6

D. 3153.6×10^6

Answer:



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8. A syringe has a capacity of 5 ml. Its capacity in cm^3 and m^3 is respectively are

A. $5 \times 10^{-6} m^3, 5cm^3$

B. $5cm^3, 5 \times 10^{-6} m^3$

C. $5 \times 10^{-3} m^3, 5cm^3$

D. $5cm^3, 5 \times 10^{-3} m^3$

Answer:



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9. A water tank has a capacity of 10,000 litre. Its value in m^3 is

A. $100m^3$

B. $1000m^3$

C. $1m^3$

D. $10m^3$

Answer:



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10. The water level of a measuring cylinder is 26ml.

A piece of concrete having a volume of 6cm^3 is

immersed in it. The new level of water is

A. 20 ml

B. 26 ml

C. 32 ml

D. 6 ml

Answer:



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11. The mass of an electron is $9.11 \times 10^{-31} \text{ kg}$. How many electrons would make 1kg?

A. 1.1×10^{30}

B. 1.1×10^{31}

C. 1.1×10^{-30}

D. 1.1×10^{-31}

Answer:



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12. If m_1, m_2, m_3 and m_4 are masses of four bodies 0.3 g, 0.3 kg, 0.3×10^{-6} g and 3000 g respectively. The above, in increasing order of masses, are as follows.

A. $m_1 > m_2 > m_3 > m_4$

B. $m_4 > m_2 > m_1 > m_3$

C. $m_4 > m_1 > m_2 > m_3$

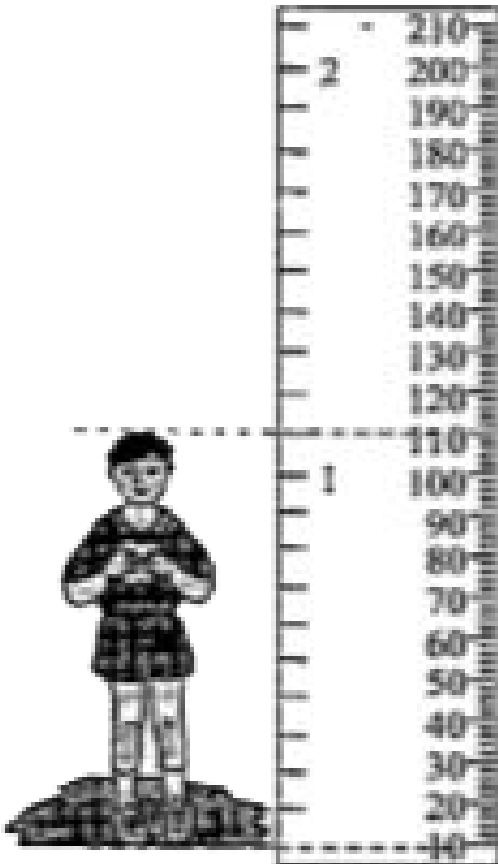
D. $m_3 > m_2 > m_4 > m_1$

Answer:



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1. Chand goes to a hospital for a health checkup. There, he is asked to stand in front of a meter scale, so that his height could be measured.



A. 1 m and 100 cm

B. 1 m and 11 cm

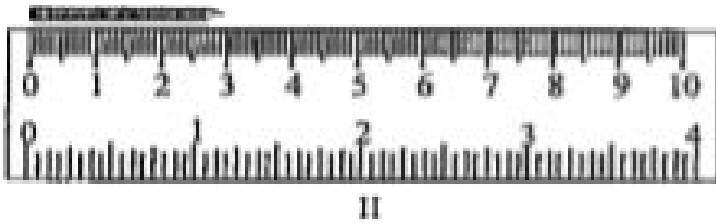
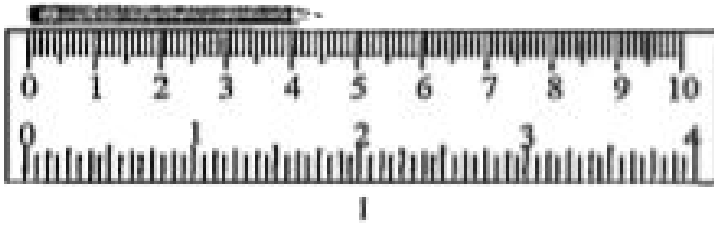
C. 1 m and 10 cm

D. 1 m and 1 cm

Answer:



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2.

The respective lengths of pencils I and II are

- A. 4.5 mm and 3 cm
- B. 4.5 cm and 3 cm
- C. 4.5 mm and 3 mm
- D. 4.5 cm and 3 mm

Answer:



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3. Which of the following tools must be used to find the tallest student in a group of four?

A. Clock

B. Thermometer

C. Measuring tape

D. Weighing balance

Answer:



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4. Sandeep has a wooden study table. He wants to measure the height of the table.

Which of the following tools can be used by Sandeep to measure the height of his study table?

A. Measuring tape

B. Pan balance

C. Microscope

D. Telescope

Answer:



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5. Peter has to run a distance of 200 m. He can run a distance of 10 m in one second.

If Peter runs at this rate, then he can cover 200 m in

A. 22 s

B. 20 s

C. 18 s

D. 13 s

Answer:



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6. The length of a thread is 10-hand spans. It is used to measure the circumference of a solid cylinder. For this purpose, the thread is wound around the circumference of the cylinder.

If the thread is wound around the cylinder five times, then what is the circumference of the cylinder?

- A. One-hand span
- B. Two-hand spans
- C. Five-hand spans
- D. Ten-hand spans

Answer:



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7. The height of an ice pole is 120 cm. In every half hour, the height of the pole reduces to half its length as the ice melts. What will be the height of the pole after two hours?

A. 15 mm

B. 30 mm

C. 60 mm

D. 75 mm

Answer:



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lit Jee Worksheet Single Correct Answer Type Fill In The Blanks

1. I. $2.4 \text{ CM} = \underline{i} \text{ mm}$

II. $3.1 \text{ mm} = \underline{ii} \text{ km}$

The information in which alternative completes the given statement?

A. $\begin{matrix} i & ii \\ 240 & 3.1 \times 10^{-3} \end{matrix}$

B. $\begin{matrix} i & ii \\ 240 & 3.1 \times 10^{-6} \end{matrix}$

C. $\begin{matrix} i & ii \\ 24 & 3.1 \times 10^{-3} \end{matrix}$

D. $\begin{matrix} i & ii \\ 24 & 3.1 \times 10^{-6} \end{matrix}$

Answer:



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lit Jee Worksheet Multiple Correct Answer Type

1. Which of the following is the unit of length?

A. Metre

B. Centimetre

C. Foot

D. second

Answer:



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lit Jee Worksheet Multiple Correct Answer Type

1. Which of the following is the unit of area?

A. cm^2

B. mm^2

C. m^2

D. m / s^2

Answer:



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2. Which of the following is the unit of mass?

A. pound

B. Metre

C. gram

D. ton

Answer:



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3. Which of the following is the unit of volume?

A. cubic metre

B. mm^2

C. cm^3

D. $(\text{foot})^3$

Answer:



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lit Jee Worksheet Paragraph Type

$$1 \text{ deci} = \frac{1}{10}$$

$$1 \text{ centi} = \frac{1}{100}$$

$$1 \text{ milli} = \frac{1}{1000}$$

1 decimetre =

A. $10^{-3}m$

B. $10^{-2}m$

C. $10^{-1}m$

D. 10 m

Answer:



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$$2.1 \text{ deci} = \frac{1}{10}$$

$$1 \text{ centi} = \frac{1}{100}$$

$$1 \text{ milli} = \frac{1}{1000}$$

1 milligram

A. $10^{-3}g$

B. $10^{-2}g$

C. $10^{-1}g$

D. 10 g

Answer:



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lit Jee Worksheet Paragraph Type

$$1.1 \text{ deci} = \frac{1}{10}$$

$$1 \text{ centi} = \frac{1}{100}$$

$$1 \text{ milli} = \frac{1}{1000}$$

$$1 \text{ cm}^3$$

A. 10 mm^3

B. 10^2 mm^3

C. 10^3 mm^3

D. 10^6 mm^3

Answer:



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$$2.1 \text{ deci} = \frac{1}{10}$$

$$1 \text{ centi} = \frac{1}{100}$$

$$1 \text{ killo} = 1000$$

$$1 \text{ km}^2$$

A. $10^3 m^2$

B. $10^6 m^2$

C. $10^{12} m^2$

D. $10^{15} m^2$

Answer:



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$$3.1 \text{ deci} = \frac{1}{10}$$

$$1 \text{ centi} = \frac{1}{100}$$

$$1 \text{ milli} = \frac{1}{1000}$$

1 milli second

A. $10^{-3} s$

B. $10^{-2} s$

C. $10^{-3} s$

D. $10^{-6} s$

Answer:



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1. Radha sees her mother cleaning the room with broom. She takes two broomsticks of different lengths and decides to measure the length of her room. She finds that the length of the room is 18 times the length of the shorter stick. The length of the shorter stick is half the length of the other stick. How many longer sticks will be required to fit along the length of the room?



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2. Swati has three dolls. She names them as Reena, Teena, and Meena. She then takes a metre scale and measures their heights. She observes that:

I. Reena is taller than Teena by 5 cm.

II. Meena is shorter than Reena by 4 cm.

If the height of Meena is 0.55 m, then Meena is taller than Teena by _____ cm.



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3. Ramesh measures the length of a thread and finds it to be 14 hand-spans. He uses it to measure the circumference of a rectangular table. He

wounds the thread around the circumference of the table. If the thread is wound around the table two times, then the circumference of the table is _____ hand spans.



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4. The length of a blackboard is 240 cm. Rakesh tries to measure this length using a small wooden stick of length 40 cm. The number of times that the stick must be revolved over the blackboard to completely cover the length is _____.



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lit Jee Worksheet Matrix Matching

	Column I		Column II
	(A) 1 Hectogram	p)	10^{-6} gram
1.	(B) 1 Decagram	q)	10^2 gram
	(C) 1 milli gram	r)	10 gram
	(D) 1 micro gram	s)	10^{-3} gram



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2.

Column I

- (i) Volume of a swimming pool
- (ii) Volume of a glass filled with milk
- (iii) Volume of an exercise book
- (iv) Volume of air in a room

Column II

- (a) cm^3
- (b) m^3
- (c) litre
- (d) millilitre



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