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India's Number 1 Education App

## PHYSICS

## BOOKS - SURA PHYSICS (TAMIL

## ENGLISH)

## Measurement

Exercise

1. The girth of a tree can be measured by
A. metre scale
B. metre rod
C. plastic ruler
D. measuring tape

Answer:

D Watch Video Solution
2. The conversion of 7 m into cm gives
A. 70 m
B. 7 m

## C. 700 m

D. 7000 m

## Answer:

D Watch Video Solution

## 3. Quantity that can be measured is called

A. Physical quantity
B. Measurement

## C. unit

D. motion

## Answer:

## D Watch Video Solution

## 4. Choose the correct one

A. $k m>m m>c m>m$
B. $k m>m m>m>c m$
C. $k m>m>c m>m m$
D. $k m>c m>m>m m$

## Answer: kmgt>cm>m>mm

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5. While measuring length of an object using a ruler, the positon of uour eye should be
A. Left side of the point.
B. Vertically above thepoint where the measurement is to be taken.
C. Right side of the point

D. Any where according to one's

convenience.

## Answer:

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6. True or False: We can say that mass of an object is 126 kg .

## 7. True or False: Length of one's chest can be

 measured by using metre scale.
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8. True or False: Ten millimetres makes one centimetre.
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9. True or False: A hand span is a reliable measure of length.

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10. True or False:The SI system of units is accepted everywhere in the world.
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11. Fill up the blanks: SI Unit of length is symbolically represented as

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12. Fill up the blanks: 500 gm= $\qquad$

## D Watch Video Solution

13. Fill up the blanks: Distance between Delhi and Chennai can be measured in

## - Watch Video Solution

14. Fill up the blanks: $1 \mathrm{~m}=\ldots \ldots \mathrm{cm}$.

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15. Fill up the blanks: $5 \mathrm{~km}=$ m.

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16. Analogy:

Sugar : Beam balance, Lime juice?

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17. Anlogy:

Height of a person : cm, length of your sharpened pencil lead?

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## 18. Anlogy:

## Milk : volume, vegetables?

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19. Match the following :

| Column A | Column B |
| :--- | :--- |
| 1. Length of the fore arm | Metre |
| 2. SI unit of length | Second |
| 3. Nano | $10^{3}$ |
| 4. SI Unit of time | $10^{-9}$ |
| 5. Kilo | Cubit |

20. Complete the given table.


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21. Arrange In Increasing order of unit.

1 Metre, 1 centimetre, 1 kilometre, and 1 millimetre.

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22. Find the answer for the following questions within the grid. $10^{-3}$ is one

| A |  | P |  | $L^{\text {L }}$ |  |  |  |  |  |  |  | R |  | K |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C |  | O |  | E |  |  |  |  |  |  |  | O |  | S |
| M |  | K |  | N |  |  |  |  |  |  |  | R |  | 1 |
| P |  | R ${ }^{\text {I }}$ |  | G |  |  |  |  |  |  |  | R |  | Tv |
| R | H | E | S | T | E | D | L | L10 | 1 | T | R | E ${ }^{3}$ | D | A |
| L |  | T |  | H |  |  |  |  |  | D |  | H |  | P |
| O |  | E |  | O |  |  |  |  | N | 7 |  | K |  | E |
| $\mathrm{A}^{\mathbf{0}}$ |  | M ${ }^{3}$ | A | S | S] |  |  |  |  |  |  | R |  | V |
| V |  | I |  | E |  |  |  |  |  |  |  | T |  | O |
| E |  | L |  | K |  |  |  |  |  |  |  | S |  | S |
| R |  | L |  | I | S ${ }^{2}$ |  |  |  | T4 |  |  | K |  | H |
| A |  | I |  | T |  |  |  |  |  |  |  | V |  | P |
| G |  | M |  | X |  |  |  |  |  |  |  | N |  | U |
| E |  | Z |  | D |  | E | 5 | K | P | G | I | W | M | F |
| Z | T | D | K | H |  | $\checkmark$ | Ot | D | 0 | M | E | T | E | R |

A. t
B.
C.
D.

## Answer:

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23. Find the answer for the following questions within the grid. SI Unit of time

| A |  | P |  | $\mathrm{L}^{7}$ |  |  |  |  |  |  |  | R |  | K |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C |  | O |  | E |  |  |  |  |  |  |  | O |  | S |
| M |  | K |  | N |  |  |  |  |  |  |  | R |  | 1 |
| P |  | R ${ }^{\text {1 }}$ |  | G |  |  |  |  |  |  |  | R |  | T9 |
| R | H | E | S | T | E | D | L | L ${ }^{10}$ | I | T | R | E ${ }^{3}$ | D | A |
| L |  | T |  | H |  |  |  |  |  | D |  | H |  | P |
| 0 |  | E |  | O |  |  |  |  | N | 7 |  | K |  | E |
| $\mathbf{A}^{6}$ <br> $\mathbf{V}$ |  | M ${ }^{3}$ | A | S | S |  |  |  | 7 |  |  | R |  | V |
| V |  | I |  | E |  |  |  |  |  |  |  | T |  | O |
| E |  | L |  | K |  |  |  |  |  |  |  | S |  | S |
| R |  | L |  | I | S ${ }^{2}$ |  |  |  | T4 |  |  | K |  | H |
| A |  | I |  | T |  |  |  |  |  |  |  | V |  | P |
| G |  | M |  | X |  |  |  |  |  |  |  | N |  | U |
| E |  | Z |  | D |  | E | 5 | K | P | G | I | W | M | F |
| Z | T | D | K | H |  | $\checkmark$ | O ${ }^{3}$ | D | 0 | M | E | T | E | R |

24. Find the answer for the following questions within the grid. Cross view of reading for a measurement leads to

| A |  | P |  | L ${ }^{\text {7 }}$ |  |  |  |  |  |  |  | R |  | K |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C |  | O |  | E |  |  |  |  |  |  |  | O |  | S |
| M |  | K |  | N |  |  |  |  |  |  |  | R |  | I |
| P |  | R ${ }^{1}$ |  | G |  |  |  |  |  |  |  | R |  | T9 |
| R | H | E | S | T | E | D | L | L ${ }^{10}$ | 1 | T | R | E ${ }^{\text {d }}$ | D | A |
| L |  | T |  | H |  |  |  |  |  | D |  | H |  | P |
| 0 |  | E |  | 0 |  |  |  |  | N | 7 |  | K |  | E |
| $\mathrm{A}^{\text {b }}$ |  | $\mathrm{M}^{3}$ | A | S | S |  |  |  |  |  |  | R |  | V |
| V |  | I |  | E |  |  |  |  |  |  |  | T |  | O |
| E |  | L |  | K |  |  |  |  |  |  |  | S |  | S |
| R |  | L |  | I | S ${ }^{2}$ |  |  |  | T 4 |  |  | K |  | H |
| A |  | I |  | T |  |  |  |  |  |  |  | V |  | P |
| G |  | M |  | X |  |  |  |  |  |  |  | N |  | U |
| E |  | Z |  | D |  | E | 5 | K | P | G | I | W | M | F |
| Z | T | D | K | H |  | $\checkmark$ | O ${ }^{1}$ | D | 0 | M | E | T | E | R |

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25. Find the answer for the following questions within in grid. an object the grid.
is the amount of substance present in
an object.

| A |  | P |  | L ${ }^{\text {7 }}$ |  |  |  |  |  |  |  | R |  | K |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C |  | O |  | E |  |  |  |  |  |  |  | O |  | S |
| M |  | K |  | N |  |  |  |  |  |  |  | R |  | I |
| P |  | R ${ }^{\text {I }}$ |  | G |  |  |  |  |  |  |  | R |  | T9 |
| R | H | E | S | T | E | D | L | $L^{10}$ | I | T | R | E ${ }^{\text {d }}$ | D | A |
| L |  | T |  | H |  |  |  |  |  | D |  | H |  | P |
| O |  | E |  | O |  |  |  |  | N |  |  | K |  | E |
| $\mathrm{A}^{6}$ |  | $\mathrm{M}^{5}$ | A | S | S |  |  |  |  |  |  | R |  | V |
| V |  | I |  | E |  |  |  |  |  |  |  | T |  | O |
| E |  | L |  | K |  |  |  |  |  |  |  | S |  | S |
| R |  | L |  | I | S ${ }^{2}$ |  |  |  | T |  |  | K |  | H |
| A |  | I |  | T |  |  |  |  |  |  |  | V |  | P |
| G |  | M |  | X |  |  |  |  |  |  |  | N |  | U |
| E |  | Z |  | D |  |  |  | K | P | G | I | W | M | F |
| Z | T | D | K | H |  |  | $\mathrm{O}^{5}$ | D | 0 | M | E | T | E | R |

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26. Find the answer for the following questions within the grid : _______can be taken to get the final reading of the recordings of different of students for a single measurement.

| A |  | P |  | L ${ }^{\text {\% }}$ |  |  |  |  |  |  |  | R |  | K |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C |  | O |  | E |  |  |  |  |  |  |  | O |  | S |
| M |  | K |  | N |  |  |  |  |  |  |  | R |  | I |
| P |  | R ${ }^{\text {I }}$ |  | G |  |  |  |  |  |  |  | R |  | T ${ }^{\text {P }}$ |
| R | H | E | S | T | E | D | L | L ${ }^{10}$ | I | T | R | E 3 | D | A |
| L |  | T |  | H |  |  |  |  |  | D |  | H |  | $\frac{\mathrm{P}}{}$ |
| O |  | E |  | O |  |  |  |  | N |  |  | K |  | E |
| $\mathrm{A}^{6}$ |  | $\mathrm{M}^{5}$ | A | S | S |  |  | O |  |  |  | R |  | V |
| V |  | I |  | E |  |  |  |  |  |  |  | T |  | O |
| E |  | L |  | K |  |  |  |  |  |  |  | S |  | S |
| R |  | L |  | I | S ${ }^{2}$ |  |  |  | T |  |  | K |  | H |
| A |  | I |  | T |  |  |  |  |  |  |  | V |  | P |
| G |  | M |  | X |  |  | M |  |  |  |  | N |  | U |
| E |  | Z |  | D |  |  |  | K | P | G | I | W | M | F |
| Z | T | D | K | H |  |  | $\mathrm{O}^{8}$ | D | 0 | M | E | T | E | R |

27. Find the answer for the following questions within the grid.____is a fundamental

## quantity.

| A |  | P |  | L ${ }^{\text {\% }}$ |  |  |  |  |  |  |  | R |  | K |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C |  | O |  | E |  |  |  |  |  |  |  | O |  | S |
| M |  | K |  | N |  |  |  |  |  |  |  | R |  | I |
| P |  | R ${ }^{1}$ |  | G |  |  |  |  |  |  |  | R |  | T9 |
| R | H | E | S | T | E | D | L | L10 | 1 | T | R | E | D | A |
| L |  | T |  | H |  |  |  |  |  | D) |  | H |  | P |
| O |  | E |  | O |  |  |  |  | N | 7 |  | K |  | E |
| $\mathrm{A}^{\mathbf{6}}$ |  | M ${ }^{3}$ | A | S | S |  |  | 0 |  |  |  | R |  | V |
| V |  | I |  | E |  |  | C |  |  |  |  | T |  | O |
| E |  | L |  | K |  |  |  |  |  |  |  | S |  | S |
| R |  | L |  | I | S ${ }^{2}$ |  |  |  | T |  |  | K |  | H |
| A |  | I |  | T |  |  |  |  |  |  |  | V |  | P |
| G |  | M |  | X |  |  | M |  |  |  |  | N |  | U |
| E |  | Z |  | D |  | E | 5 | K | P | G | I | W | M | F |
| Z | T | D | K | H |  | $\nabla$ | $\mathrm{O}^{8}$ | D | 0 | M | E | T | E | R |

28. Find the answer for the following questions within the grid.___shows the distance covered by an automobile.

| A |  | P |  | $L^{\text {L }}$ |  |  |  |  |  |  |  | R |  | K |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C |  | O |  | E |  |  |  |  |  |  |  | O |  | S |
| M |  | K |  | N |  |  |  |  |  |  |  | R |  | 1 |
| P |  | R ${ }^{1}$ |  | G |  |  |  |  |  |  |  | R |  | T9 |
| R | H | E | S | T | E | D | L | L ${ }^{10}$ | I | T | R | E ${ }^{3}$ | D | A |
| L |  | T |  | H |  |  |  |  |  | D |  | H |  | P |
| O |  | E |  | O |  |  |  |  | N | 7 |  | K |  | E |
| $\mathrm{A}^{\mathbf{0}}$ |  | M ${ }^{3}$ | A | S | S |  |  |  | , |  |  | R |  | V |
| V |  | I |  | E |  |  |  |  |  |  |  | T |  | O |
| E |  | L |  | K |  |  |  |  |  |  |  | S |  | S |
| R |  | L |  | I | S ${ }^{2}$ |  |  |  | T ${ }^{4}$ |  |  | K |  | H |
| A |  | I |  | T |  |  |  |  |  |  |  | V |  | P |
| G |  | M |  | X |  |  |  |  |  |  |  | N |  | U |
| E |  | Z |  | D |  | E | 5 | K | P | G | I | W | M | F |
| Z | T | D | K | H |  | $\checkmark$ | $\mathrm{O}^{8}$ | D | 0 | M | E | T | E | R |

## D Watch Video Solution

29. Find the answer for the following questions within the grid. A tailor use to take measurements to stich a cloth.

| A |  | P |  | $L^{\text {L }}$ |  |  |  |  |  |  |  | R |  | K |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C |  | O |  | E |  |  |  |  |  |  |  | O |  | S |
| M |  | K |  | N |  |  |  |  |  |  |  | R |  | 1 |
| P |  | R1 |  | G |  |  |  |  |  |  |  | R |  | T9 |
| R | H | E | S | T | E | D | L | [ $L^{10}$ | I | T | R | E | D | A |
| L |  | T |  | H |  |  |  |  |  | D) |  | H |  | P |
| O |  | E |  | O |  |  |  |  | N | 7 |  | K |  | E |
| $\mathrm{A}^{\mathbf{0}}$ |  | $\mathrm{M}^{3}$ | A | S | S |  |  |  |  |  |  | R |  | V |
| V |  | I |  | E |  |  | C |  |  |  |  | T |  | O |
| E |  | L |  | K |  | E |  |  |  |  |  | S |  | S |
| R |  | L |  | I | S ${ }^{2}$ |  |  |  | T4 |  |  | K |  | H |
| A |  | I |  | T |  |  |  |  |  |  |  | V |  | P |
| G |  | M |  | X |  |  |  |  |  |  |  | N |  | U |
| E |  | Z |  | D |  | - | 5 | K | P | G | I | W | M | F |
| Z | T | D | K | H |  | $\checkmark$ | O | D | 0 | M | E | T | E | R |

## D Watch Video Solution

30. Find the answer for the following questions within the grid. Liquids are measured with this physical quantity.

| A |  | P |  | $L^{\text {L }}$ |  |  |  |  |  |  |  | R |  | K |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C |  | O |  | E |  |  |  |  |  |  |  | O |  | S |
| M |  | K |  | N |  |  |  |  |  |  |  | R |  | 1 |
| P |  | R ${ }^{1}$ |  | G |  |  |  |  |  |  |  | R |  | T9 |
| R | H | E | S | T | E | D | L | L ${ }^{10}$ | I | T | R | E ${ }^{3}$ | D | A |
| L |  | T |  | H |  |  |  |  |  | D |  | H |  | P |
| O |  | E |  | O |  |  |  |  | N | 7 |  | K |  | E |
| $\mathrm{A}^{\mathbf{0}}$ |  | M ${ }^{3}$ | A | S | S |  |  |  | , |  |  | R |  | V |
| V |  | I |  | E |  |  |  |  |  |  |  | T |  | O |
| E |  | L |  | K |  |  |  |  |  |  |  | S |  | S |
| R |  | L |  | I | S ${ }^{2}$ |  |  |  | T ${ }^{4}$ |  |  | K |  | H |
| A |  | I |  | T |  |  |  |  |  |  |  | V |  | P |
| G |  | M |  | X |  |  |  |  |  |  |  | N |  | U |
| E |  | Z |  | D |  | E | 5 | K | P | G | I | W | M | F |
| Z | T | D | K | H |  | $\checkmark$ | $\mathrm{O}^{8}$ | D | 0 | M | E | T | E | R |

## D Watch Video Solution

## 31. Choose the correct answer:

# In which SI unit, you can measure you height? 

A. Kilogram
B. Litre
C. Metre
D. Second

## Answer:

D Watch Video Solution
32. The distance between one end and the other end is called $\qquad$
A. mass
B. length
C. time
D. None

## Answer:

D Watch Video Solution
33. ___ is used to measure the accurate time of the activity.
A. Clock
B. Watch
C. Stop clock
D. Sundial

Answer:

D Watch Video Solution
34. Five kilometre is equal to
A. 500 cm
B. 500 m
C. 5000 m
D. 5000 cm

Answer:
(D) Watch Video Solution
35. S.I unit for Volume is
A. $m^{2}$
B. $m$
C. $m^{3}$
D. none

Answer:

- Watch Video Solution

36. Twenty decimetre is equal to
A. 2 km

## B. 20 cm

C. 2 metre
D. 200 mm

## Answer:

## - Watch Video Solution

37. is used to measure mass.
A. Stop clok
B. Beam balance

## C. Sundial

## D. Graduated cylinder

## Answer:

## - Watch Video Solution

38. The metric system of units was created by
the___in 1790
A. Greek

B. Ausralianst

## C. Russians

D. French

## Answer:

## D Watch Video Solution

39. The moon's gravitational pull is one of
the earth's pull.
A. seventh
B. sixth
C. fifth
D. fourth

## Answer:

## D Watch Video Solution

# 40. The girth of a tree can be measured by 

A. metre scale
B. metre rod
C. plastic ruler

## D. measuring tape

## Answer:

## D Watch Video Solution

41. The distance between one end and the other end is called
A. mass
B. length
C. time
D. 200 mm

## Answer:

## D Watch Video Solution

42. Twenty decimetre is equal to
A. 2 km
B. 20 cm
C. 2 metre
D. None

## Answer:

## D Watch Video Solution

43. is used to measure mass.
A. Stop clok
B. Beam balance
C. Sundial

D. Graduated cylinder

44. Fill in the blanks.

SI Unit of length is symbolically represented as ____

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45. Fill in the blanks.
$1 \mathrm{~m}=\ldots \ldots \mathrm{cm}$.

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46. Fill in the blanks.
_____shows the distance covered by an automobile.

## D Watch Video Solution

47. Find whether the following sentences are true or false. If false Correct the statement. We can say that mass of an object is 126 kg .
48. Find whether the following sentences are true or false. If false Correct the statement.

The SI system of units is accepted everywhere in the world.

## - Watch Video Solution

49. Find whether the following sentences are true or false. If false correct the statement.

On moon, the gravitational force is greater than earth.
50. Match the following.

| 1. | Length of the fore arm | (i) | metre |
| :--- | :--- | :--- | :--- |
| 2. | SI unit of length | (ii) | second |
| 3. | Nano | (iii) | cubit |
| 4. | SI unit of time | (iv) | $10^{-9}$ |

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51. What is meant by parallax?

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52. What are the clocks used to measure a smaller duration of time?

## D Watch Video Solution

53. Define mass.

## D Watch Video Solution

54. Where are the electronic balances used?
55. The distance between your school and your house is 2250 m . Express this distance in kilometre.

D Watch Video Solution
56. What is the full form of SI system?

## - Watch Video Solution

57. Explain anyone method to measure the length of a curved line.

## - Watch Video Solution

58. Fill in the following chart.

| Property | Definition | Basic Unit | Instrument used <br> for measuring |
| :--- | :--- | :--- | :--- |
| Length |  |  |  |
| Mass |  |  |  |
| Volume |  |  |  |
| Time |  |  |  |

## - Watch Video Solution

1. Answer in a word or two. What is the full
form of SI system?

## D Watch Video Solution

2. Answer in a word or two.Name any one
instrument used for measuring mass.

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3. Answer in a word or two.Find the odd one out : Kilogram, Millimetre, Centimetre,

Nanometre

## D Watch Video Solution

4. Answer in a word or two.What is the SI Unit of mass?

## - Watch Video Solution

## 5. Anwer in a word or two What are the two

 parts present in a measurement?- Watch Video Solution

6. Answer In a sentence or two.Define measurement

- Watch Video Solution

7. Define mass.

## - Watch Video Solution

8. Answer in a sentence or two .The distance between two places is 43.65 km . Convert it into metre and cm .

D Watch Video Solution
9. Answer in a sentence or two. Convert km into metre
10. Answer in a a sentence or two.What are the rules to be followed to make accurate measurement with scale?

## D Watch Video Solution

11. The distance between your school and your
house is 2250 m . Express this distance in
kilometre.
12. While measuring the length of a sharpened pencil, reading of the scale at one end is 2.0 cm and at the other end is 12.1 cm . What is the length of the pencil?

## - Watch Video Solution

13. Write in detail.

Explain two methods those you can use to measure the length of a curved line.
14. Fill in the following chart.

| Property | Definition | Basic Unit | Instrument used <br> for measuring |
| :--- | :--- | :--- | :---: |
| Length |  |  |  |
| Mass |  |  |  |
| Volume |  |  |  |
| Time |  |  |  |

## D Watch Video Solution

15. Find whether the following sentences are true or false. If false correct the statement.

Kerosene is measured with the help of graduated cylinder
16. Length is a fundamental quantity

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17. Find whether the following sentences are true or false. If false correct the statement.

On moon, the gravitational force is greater than earth.
18. Find whether the following sentences are true or false. If false correct the statement.

An electronic balance is a device used to find accurate mass.

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19. Find whether the following sentences are
true or false. If false correct the statement.

Speedometer is a device used for indicating distance travelled by an automobile.
20. Find whether the following sentences are true or false. If false correct the statement.

A ruler or scale used now a days to measure length was invented by William Bedwell.

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21. Find whether the following sentences are true or false. If false correct the statement.

Length, mass and time are some of the derived quantities.

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22. Find whether the following sentences are true or false. If false correct the statement.

Leaves and piece of paper are heavier things.

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23. Find whether the following sentences are true or false. If false correct the statement.

National physical laboratory is located in Delhi.

## - Watch Video Solution

24. Analogy.

Potatoes: Kilogram, Water?

## 25. Analogy.

Stop clock : accurate time,____:accurate weight

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26. Analogy.

Mass : Balance, Length?
(D) Watch Video Solution

## 27. Analogy.

Amount of matter : mass, Gravitational Pull?

- Watch Video Solution

28. What are the materials needed to find the length of a banana?
(D) Watch Video Solution
29. What formula is used to measure area of your class room?

- Watch Video Solution

30. Give an example of a device used to find the accurate measurement of weight.
31. In earlier days, which instruments are used to measure time?

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32. What are the clocks used to measure a smaller duration of time?

## D Watch Video Solution

33. Who invented a ruler or scale?

## - Watch Video Solution

## 34. Which alloy is used to make the standard

 metre rod?
## D Watch Video Solution

## 35. Match the following :

| Prefix |  |  |  |
| :--- | :--- | :--- | :--- |
| a. | Centi | i. | k |
| b. | Nano | ii. | c |
| c. | milli | iii. | n |
| d. | kilo | iv. | m |

36. What is length?

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37. Give some examples of larger length measures.

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38. List the SI units of length, mass and time.
39. What is meant by parallax?

## - Watch Video Solution

40. Differentiate mass and weight.

- Watch Video Solution

41. Where are the electronic balances used?
42. Hold a sheet paper in one hand and a book in other hand. Which hand feels heaviness? Why?
