



PHYSICS

BOOKS - TARGET PUBLICATION

MEASUREMENT OF PHYSICAL QUANTITIES

Solved

1. Fill in the blanks :

Mass is qualitative measure of the Of an

object .



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2. Fill in the blanks :

The Force that acts on the mass is called its weight .



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3. Fill in the blanks :

The Is the specified unit for measuring

length in M.K.S system .



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4. Fill in the blanks :

System international is also called the



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5. Fill in the blanks :

The time required for one revolution of the earth is taken as Hours .



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6. Fill in the blanks :

In olden times , Was used as a unit to weigh gold .



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7. Fill in the blanks :

1 TMC = Million cubic feet .



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8. Right or wrong ? If wrong , write the correct sentence :

It is enough to select a few out of many physical quantities and standardize their units

.



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9. Right or wrong ? If wrong , write the correct sentence :

Density is a fundamental quantity .



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10. Right or wrong ? If wrong , write the correct sentence :

A standard fundamental unit must be available to all and must not be variable .



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11. Right or wrong ? If wrong , write the correct sentence :

Unit of mass is same in both M.K.S and C.G.S systems .



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12. Match the following :

Who is my companion :

Group 'A'		Group 'B'	
i.	Velocity	a.	litre
ii.	Area	b.	kilogram
iii.	Volume	c.	metre/second
iv.	Mass	d.	kilogram/cubic metre
v.	Density	e.	square metre



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13. Distinguish between

Scalar quantity and Vector quantity



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14. How are we different :

What is the difference between mass and weight ?



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15. Answer in your own words :

Will it be possible to use one and the same unit to measure physical quantities such as mass , weight , distance , velocity , temperature ?



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16. Answer in your own words :

What are fundamental quantities ?



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17. Answer in your own words :

What precautions will you take to make accurate measurements in day-to-day affairs ?



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18. Explain giving examples:

Scalar quantity



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19. Explain giving examples:

Vector quantity



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20. Answer the following :

Write a short note on :

Weight



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21. Answer the following :

Explain , giving examples , the errors that occur while making measurements .



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22. Answer the following :

Explain the need for accurate measurement and the devices to be used for that .



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23. Answer the following :

Complete the following table :

Physical Quantity	M.K.S.	C.G.S.
Mass	Kilogram	Gram
Distance		
Time		
Speed		



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24. Use your brain power!

Why would the weight of an object be maximum at the poles and minimum at the equator?



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25. Use your brain power!

Why is the weight of an object at a high altitude less than its weight at the sea level?



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26. Write answer to the following question in your own words:

Why is the weight of the same object different on different planets?



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27. Give reasons :

It is not proper to measure quantities by using body parts as units .



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28. Give reasons :

Why is there a need for a standard unit ?



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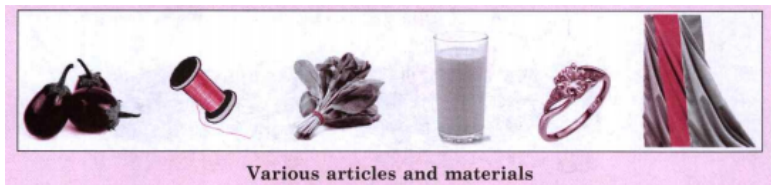
29. Give reasons :

It is necessary to get the weights and measures standardized at regular intervals .



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30. How are the various articles and materials shown in the picture measured?



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31. Take a ball of string . Let one student from the class measure four hand spans of the string and cut it there . Let each of the other students in the class cut four hand-spans of the string , too . Now hold all the pieces together by one end . Are they all of the same length ?



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32. Now , measure the length of a bench by means of the span of your hand . Ask your friends to do the same . Did each of you obtain the same measure for that bench ? What could be the reason ?



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33. Work out the area of your classroom . Which quantities are taken into account to calculate the area ?





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34. What is an atomic clock? Where is it kept?



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35. Make a list of possible errors other than the ones mentioned in the textbook .



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36. Oral work :

Find the value ,unit and the physical quantity expressed in a sentence given below .

One should drink two litres of water every day

.



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37. Oral work :

How is one kilogram as a standard defined in practice ?





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38. Oral work :

State two properties of a standard fundamental unit .



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39. Oral work :

Name a device used for measuring time in olden times .



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40. Activities :

Find out the seven fundamental units of system international . Also , indicate symbol of each unit and name the physical quantity it measures .



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41. Project :

Collect information about various physical

quantities used in day-to-day life and the devices used for their measurement .



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42. Choose the correct alternative :

A value and a Are used to express magnitude of a physical quantity .

A. numeral

B. symbol

C. direction

D. unit

Answer:



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43. Choose the correct alternative :

..... Is not a scalar quantity .

A. density

B. temperature

C. gravitational force

D. work

Answer: A::C



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44. Choose the correct alternative :

..... of the body is on the moon as compared to that on the earth .

A. mass , less

B. weight , lesss

C. mass , more

D. weight , more

Answer:



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45. Choose the correct alternative :

The distance between the two fine lines which are engraved on the platinum-iridium bar is accepted as the standard

A. gram

B. kilogram

C. centimetre

D. metre

Answer:



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46. State Right or wrong ? If wrong , write the correct sentence :

Many physical quantities are independent of each other .



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47. State Right or wrong ? If wrong , write the correct sentence :

A specific standard unit can be used to measure all physical quantities .



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48. Answer the following :

Weight of a person on moon is less than that on earth . Justify .



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49. Answer the following :

What is the international systems of units ?



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50. Answer the following :

Why does a person weigh more at the bottom of mount everest than at the top of it ?



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