



PHYSICS

BOOKS - NAVNEET PUBLICATION

MEASUREMENT OF PHYSICAL QUANTITIES

Question Bank

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



Various articles and materials



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2. Fill in the blanks:

A _____ and a _____ are used to express the magnitude of a physical quantity.



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3. Fill in the blanks:

The _____ that acts on this mass is called its weight.



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4. Fill in the blanks:

The quantity 'speed' is the ratio of _____ and _____ quantities.



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5. Fill in the blanks:

Standard _____ unit must not be variable.



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6. Fill in the blanks:

An international system of units based on seven fundamental units is called _____.



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7. One word in the following statements is incorrect. Correct that word and rewrite the statements:

Length is a vector quantity.



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8. One word in the following statements is incorrect. Correct that word and rewrite the statements:

The amount of matter present in a substance is called volume.



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9. One word in the following statements is incorrect. Correct that word and rewrite the statements:

Mass is a vector quantity and weight is a scalar quantity.



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10. One word in the following statements is incorrect. Correct that word and rewrite the statements:

In MKS system distance is measured in centimeters mass in grams and time in seconds.



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11. One word in the following statements is incorrect. Correct that word and rewrite the statements:

As the standard of mass a solid cylinder made of an iron aluminum alloy is kept in the international bureau of weights and measures at paris.



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12. One word in the following statements is incorrect. Correct that word and rewrite the statements:

In Egypt in ancient times the distance from a

man's elbow to the tip of his middle finger was called a span.



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13. Who is my companion?

Group 'A'	Group 'B'
(1) Velocity	(a) litre
(2) Area	(b) kilogram
(3) Volume	(c) metre/second
(4) Mass	(d) kilogram/cubic metre
(5) Density	(e) square metre



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14. Find the degree

Sr. No.	Polynomial	Degree
(1)	$7y - y^3 + 5$	
(2)	$m^3n^7 - 3m^5n + mn$	
(3)	$\sqrt{2}m^{10} - 7$	
(4)	$xyz + xy - 2$	



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15. Explain giving examples:

Scalar quantity



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16. Explain giving examples:

Vector quantity



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

How is second standardized?



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

What is the difference between mass and weight?



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

How is second standardized?



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21. Explain the need for making measurement.



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22. 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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23. Choose the correct option.

Which of the following units is NOT written correctly



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24. Give scientific reasons:

It is necessary to remove harmful and waste substances from the body.



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25. Give reasons:

Our mass is same on both the moon and the earth.



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26. 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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27. 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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28. What is an atomic clock? Where is it kept?



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29. How is the velocity of light used for determining the standard meter?



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30. Answer the following question orally:

In which unit is your weight measured?



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31. Answer the following question:

How is measurements done at the petrol pump?



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32. Answer the following question orally:

In which unit is your weight measured?



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33. 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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34. Answer the given question orally :

What happens if clothes remain damp in the rainy season?



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35. Answer the following question orally:

Where is atomic clock kept in India?



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