

Dr. Virendra Swarup Education Centre, Kidwai Nagar.
Class :- VII

English Literature

- Enjoy reading the reader 'Six Tales From Shakespeare'
- Learn thoroughly poems: 'The Geography Lesson'
'In the Bazaars of Hyderabad'

English Language

Do Pages:

29 – Ex. A

36 – Warm up

31 – Ex.1

38 – Ex. A

32 – Ex. D, E

46 – Ex.A

Physics

Complete the numerical sheet in physics notebook uploaded online.

Maths

Worksheet – To be done in revision register.

Marked pages of the workbook 'Hands on Mathematics' to be done in the workbook itself.

Geography

- 1) Collect data for a project on the impact of Global warming on the icebergs and glaciers of Antarctica.
- OR
- 2) Choose any two cities of India and find out the places of tourist interest and prepare a travel brochure. Mention the geographical importance or features of these places.

Biology

- 1) Collect non-biodegradable objects (no sharp things) to make a collage in class with message say no to non-biodegradable waste, variety of non-biodegradable objects should be there.
- 2) Plant a tree to show phototropism. (As explained in class while teaching the chapter)

History

Collect information and relevant pictures from the sultanate period such as Raziya becoming the ruler of Delhi, Khalji reforms, Tughluq's experiments and so on. Students will create a newspaper of Sultanate period.

Note: The given project will be done in the class.

Chemistry: Compare the composition of:

- a) Any 2 brands of shampoo.
- b) Soap and detergents

Stick the composition label on the plain side in notebook and write about it on the ruled side.

Hindi

अपनी किसी यात्रा का संस्मरण लिखें एवं चित्रों के माध्यम से उसे विस्तार दें।

MATHS WORKSHEET

CLASS – VII

1. Solve the following equations:-

i. $\frac{7y}{3} + 11 = \frac{9y}{4} + 15$

ii. $6(4y - 2) = 3(5+3y)$

iii. $9(x - 1) = 4(x - 3)$

iv. $\frac{2x}{5-6x} = \frac{9}{7}$

v. $\frac{4x+1}{3} + \frac{2x+1}{2} = \frac{3x-7}{5} + 6$

vi. $\frac{x-5}{4} = \frac{3+4x}{3} - \frac{x-3}{6}$

vii. $\frac{5-8x}{7x+1} = \frac{5}{4}$

viii. $\frac{2}{3}y + 1 = \frac{5}{3}(y + \frac{1}{4})$

2. Three nos. are in the ratio 3: 4: 5. If the sum of the smallest and the largest nos. exceeds the third no. by 64, find the nos.

3. The denominator of a rational no. is greater than its numerator by 5. If the numerator is increased by 11 and the denominator is decreased by 14, the new no. becomes 5. Find the original rational no.

4. At present, Ankit is twice as old as his son. In four years, he will be four times as old as what his son was nine years ago. Find the present ages of both of them.

5. Divide the following:

i) $y^2 + 5y - 36$ by $y + 9$ ii) $3x^2 + 10x + 3$ by $3x + 1$ iii) $x^3 - 6x^2 + x + 8$ by $x + 1$

iv) $5x^3 - 4x^2 + 3x + 24$ by $5x + 6$ v) $4a^3 + 8a^2 + 24$ by $a + 4$

6. Find the HCF by long division method.

i) 272, 224, 384 ii) 336, 504, 546 iii) 204, 276, 372, 348 iv) 324, 612, 504, 432

7. Find the least no. which when divided by 16, 18 and 24 leaves a remainder of 11.

8. Find the least no. which when increased by 7 is exactly divisible by 30, 42 and 54.

9. Find the LCM of 882, 1176, 1134 and 1890 by common division method.

10. Convert the following into fractions:

a) 6.6 b) 5.90 c) 8.821 d) 9.54 e) 2.132

11. Simplify: i) $(8\frac{1}{3} + 5\frac{2}{5})(10\frac{2}{5} - 4\frac{1}{4})(9\frac{2}{7} * 2\frac{4}{5})$

ii) $\frac{2}{5}$ of $\{(11\frac{3}{8} * 3\frac{3}{7}) + 2\frac{1}{3}(2\frac{1}{12} + 2\frac{4}{15})\}$

iii) $[2.5(6.6 * 3.2 - 56.48 \div 7.06) + 5.4(67.3 - 21.7)]$

iv) $108 - [15 * 2 + \frac{3}{4} \text{ of } \{6(17 + 39) + (3 * 2 + 1)\} - (9 * 2) + (9 \div 3)]$

12. Anuj has Rs.1000 in denominations of Rs.5 and Rs.2 coins. If the no. of two-rupee coins Anuj has is five-eighths of the no. of five-rupee coins, how many coins of each type does Anuj have?

13. The sum of the digits of a two-digit no. is 9. If the digits are interchanged, the no. obtained exceeds the original no. by 27. Find the no.

14. Divide Rs.1500 between A, B, and C such that B's share is five-sixths of A's share and C's share is four-fifths of B's share.

15. The average height of a cricket team comprising of 15 players was 180cm. Find their total height.

16. The average of 11 values is 48. If the average of first 6 values is 36 and that of last 6 is 54, find the sixth value.

17. The rainfall for 4 consecutive days during a rainy season was recorded as follows:

1.6cm, 1.5cm, 2.2cm and 3.7cm. calculate the average daily rainfall.

18. A bus covers a certain distance at a speed of 120km/hr in 5hrs. At what speed it must travel to cover the same distance in 2.5hrs ?

19. The average weight of 34 students in a class is 34.25kg. and that of remaining 16 students is 28.75kg. Find the average weight of all students in the class.

20. Find the perimeter of rectangular park whose length and breadth are $4x + y - z$ units and $x - 3y - z$ units respectively

21. Find the perimeter of triangle whose sides are $15x^2 - 13x + 25$ units, $23x^2 + x - 19$ units and $-17x^2 - 15x + 39$

22. From the sum of $14a + 12b + 12c$ and $12a - 14b + 16c$ subtract $16a - 18b - 12c$

23. Take away $1 - 17x^2 + 3xy - 31y^2$ from $16y^2 - 9x^2 + 11xy$

24. How much should $-3x + 5y - 2z$ be increased to get $7x$?

25. How much is $0.85pq + 0.25p - 0.32$ less than $0.6pq + 1.1p + 4$

Dr. Virendra Swarup Education Centre, Kidwai Nagar
Holiday Homework

Subject: Physics

Class: VII

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1. The density of silver is 10.3 g/cm^3 . Express it in kg m^{-3} .
 2. A piece of iron has a volume of 20 cm^3 and a mass of 0.54 kg . Find the density of the iron piece in (i) kg m^{-3} (ii) g cm^{-3} .
 3. 20 cm^3 of silver weighs 206 g . Find the density of silver in kg m^{-3} .
 4. A substance having a density of 0.6 gm/cm^3 has a mass of 36 gm . Find the volume of the substance.
 5. The density of a substance is 1.6 g cm^{-3} . Find the mass of a block of this substance whose volume is 50 cm^3 .
 6. A piece of iron weighs 280 g and has a volume of 28 cm^3 . Find the density of iron.
 7. Four litres of kerosene has a mass of 8 kg . Calculate the density of kerosene in (i) cm^{-3} and (ii) kg m^{-3} .
 8. The volume of a metal cube is 150 cm^3 . If the density of the metal is 5.5 g/cm^3 , find the mass of the metal in kilogram.
 9. A scooter travels for 4 hours at a speed of 30 m/s . Find the distance covered by the scooter in km.
 10. Find the initial velocity of a body that moves with an acceleration of 10 m/s^2 for 4 seconds reaching a final velocity of 100 m/s .
 11. A car changes its velocity from 4 m/s to 44 m/s at the rate of 6 m/s^2 . Calculate the time required.
 12. A cyclist moving with a velocity of 5 m/s is pushed by a person and he accelerates at a rate of 1 m/s^2 . Calculate the final velocity acquired by the cyclist in 25 seconds.
 13. A car starts from rest and is accelerated at the rate of 6 m/s^2 for 10 seconds. Find the velocity of the car at the end of 10 seconds.
 14. A motor bike is moving with a velocity of 6 m/s . It is accelerated at the rate of 0.6 m/s^2 for 15 s. Find the final velocity of the motor bike.
 15. A car is moving with a velocity of 72 km/hr . It comes to a stop in 2 seconds when the brakes are applied. Find the retardation in m/s^2 .