Dr. Virendra Swarup Education Centre, Kidwai Nagar, Kanpur
Class – 7

Summer Holiday Homework

English Language : Do units 1, 2, 3 & 4 in the grammar book

Friday Afternoon : Do chapter 4 & 6 in the book

English Literature : Read the book 'Sherlock Holmes, six short stories'
Read two more stories authored by Ruskin Bond.

Activity : **'Jar of Kindness'**
On an art sheet draw a jar and mention any four deeds of kindness done by you during your holidays. On a comment sheet narrate an incident from your experience which has proved that 'what goes around comes around'. Find ten adjectives from your narration and use them in sentences..... interesting ones!

Hindi Language
अकेला चना भाड़ नहीं फोड़ता' उक्ति को गलत सिद्ध करने वाले कुछ कर्मवीरो का परिचय देते हुये उनके कार्यों के विवरण दें तथा उनके चित्र भी चिपकाये |

Hindi Literature
अनेक प्रसिद्ध प्राचीन गुरु – शिष्य जोड़ियाँ हैं जो आज भी प्रेरणादायक हैं| ये जोड़ियाँ जैसे द्रोणाचार्य – अर्जुन, संदीपन – कृष्ण, वशिष्ठ – श्रीराम आदि हैं | ऐसी ही किसी एक गुरु शिष्य जोड़ी के विषय में विस्तार से लिखे | एवं आपके ऊपर इनका क्या प्रभाव पड़ा एक अनुच्छेद में लिखें|

Mathematics
Maths worksheet to be done in revision register

Rapid Fire : Pages 3 to 23 & 39 to 43

Activity
Project to be done on comment sheet
Find the following through paper cutting method
i)   Length, Breadth & Height of the Open box
ii)   volume of the box
iii)   Total surface area of the box
iv)   Verify that
        Area of Rectangle = Area of the box + Area of 4 squares

Phyics
1) Construct a working model of a spring balance
2) Do the worksheet in physics revision register

Chemistry
1)   Collect material to make project in class for making structure of atom of the given element (on spot) and electronic configuration also has to be done
2)   Learn valency, radical, atomic and mass number

Biology

Collect the following materials (3 each)

1) Allopathic medicines alongwith their strips.
2) Homeopathic medicines
3) Ayurvedic medicines or Home-made Ayurveda
    Also collect information about them
    Project to be done in class

NOTE: ∗ **Children to do 10 pages of English & Hindi Handwriting each.**
   • **Holiday homework may be marked.**

Maths Worksheet – Class VII

1. In a factory , the number of male workers is 2/5th of the number of female workers . If the total number workers is 84 , find (a) the number of female workers (b) the number pf male workers

2. My son's age is 1/3 of my wife's age ,my wife's age is 4/5 of my age, and my age is 3/5 of my father's age. Find the age of my son, if my father is 50 years old.

3. Find the LCM by common division method
   (a) 40,48,90   (b) 32,48,60,72   (c) 48,56,80,154   (d) 112,246,314

4. The product of two number sis 2160 and their HCF is 12. Find the LCM .

5. The product of two fractions is 19. If one of them is $15\frac{5}{6}$,find the other.

6. Find: i)10 – 10 x 28 ÷ 28   ii) 18 ÷ 9 x 10 + 5 x 4 ÷ 2 – 300 ÷ 10 iii) (7 – 1) ÷ (5 – 3)
   iv) 54 ÷ (7 x 8 – 47) x 20 – 15 x 8   v) (45 ÷ 5) ÷ 3 – (18 ÷ 6) x 4 + (14 ÷ 7) x (48 ÷ 8)

7. Find the H.C.F.of the following by division method:
   i) 39, 403 and 182   ii) 429 ,715   iii) 910, 1442 and 7245

8. What is the lowest no. which when divided separately by 15, 20, 48 and 36 will leave a remainder of 9 in each case.

9. Can two nos. have 21 as the H.C.F. and 443 as the L.C.M?

10. What is the value of the expression 2.5 + 3.8 ÷ 0.02 ?

11. Find the square root of the following nos. by division method:
    i) 9409 ii)166464 iii) 69696 iv) 765625 v) 1085764 vi)0.3481 vii) 0.0121

12. Length of a rectangle is 5cm more than twice its breadth. If the perimeter of the rectangle is 52cm, find its length and breadth.

13. A man is 27 years older than his son , and in 10 years from now he will be twice as old as his son. How old is each now?

14. Solve for x :   i) $\frac{x+5}{5} - \frac{x+3}{2} = 1$ ii) 3x – 2[x – 2(x - 3)] = 13

   iii) $\frac{4x-9}{6}$ = X - $\frac{2x+7}{2}$ iv) $\frac{2x+1}{3} + \frac{4x+1}{2} - \frac{3x+5}{5} = \frac{19}{10}$

   v) 3x – 1 = 2x - $\frac{2}{3}$ vi) $\frac{2x-13}{9} - \frac{x}{8} = \frac{x}{7} + \frac{x-1}{11}$ - 9

15. Find the smallest number by which 6336 and 8712 must be divided to obtain a perfect square . Also find the square root of the perfect square obtained.

16. Find the smallest number by which 3888 and 9800 must be multiplied to obtain a perfect square . Also find the square root of the perfect square obtained.

17. Simplify :- i) $(3\frac{3}{4} ÷ 2\frac{5}{6})$ x $(1\frac{1}{3} + 3\frac{1}{2})$ x $(1 - \frac{51}{54})$ ii) $(\frac{1}{3} + \frac{4}{5}) ÷ [1\frac{1}{2} + 2\{\frac{3}{4} - (\frac{2}{6} ÷ (1\frac{1}{6} - 1\frac{2}{3})$ iii) $2\frac{1}{7}[3\frac{4}{5}$
   - $\{ 1\frac{2}{3} - (\frac{6}{7} + \frac{2}{3}) ÷ 2\frac{2}{7}\}]$ x $\frac{1}{6}$ iv) 87.16 x 1.53 – 23.67 ÷ 2.367 v) 5.62 x 3.9 x 23 + 54.12 ÷3.3

18. Divide the following decimals: i)2.88 ÷ 6 ii)72.8 ÷ 0.04 iii)181.44 ÷ 0.12 iv)36.8 ÷ 1.6 v)2.88÷6

19. What should be added to $\frac{27}{33}$ to get 1?

20. In an isosceles triangle, the vertex angle is thrice of either base angle. Find the measure of angles of the triangle.

Physics

I. Convert the following:

1. 440 kg to N

2. 509.60 N to kgf

3. 150 m^2 to hectare

4. 15.55 kg/m^3 to g/cm^3

5. 0.138 kgf to gf

6. 126 g/cm^3 to kg/m^3

7. 47 quintal to ton

8. 9650 m^2 to km^2

9. 24 m^2 to cm^2

10. 1250 gram to kg

II. Write S.I. units of the following:

1. Area
2. Mass
3. Weight
4. Density
5. Relative Density

III. Give reason, why?

1. A wooden block floats on water whereas an iron nail sinks in water?

2. Relative density has no unit?