

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

**English Language**

Do exercises marked in the book the Grammar with a Smile from Pages 50 - 63

**English Literature**

Read the book 'The Hound of The Baskervilles' and make a poster of something that leaves impact on you.

**Maths**

Worksheet and topics marked in Hands – on – Mathematics workbook 1

**Biology**

Collect the material for project "Say no to plastic"

**Chemistry**

Prepare an edible dish using a chemical (besides salt). Write the ingredients and recipe. Also paste your photograph while preparing the dish (to be done under adult supervision). All this work to be done in the chemistry notebook.

**Physics**

Collect five substances (three solids and two liquids) and check the densities of these substances and compare with the actual densities. (It should be of 10 pages, interleaved comment sheet)

Substances – Plastic, wood, iron, aluminium, soap, mustard oil, vinegar, honey, milk

**Geography**

Collect the matter and pictures for preparing the project on –

- 1) Migration: quoting examples of migration in the different parts of the world.

OR

- 2) Radioactive pollution: Its sources and effect with references to any case study (Ex- Hiroshima & Nagasaki)

**Hindi Literature**

सामाजिक व्यवस्था से सम्बंधित लेख समाचार पत्रों से पढ़ना व लेख व चित्र एकत्र करके लाने हैं। कक्षा में ग्रीष्मावकाश के बाद परियोजना करवाई जाएगी। (पाठ २ पर आधारित)

**Hindi Language**

बाल श्रमिक से साक्षात्कार लेना (प्रश्न उत्तर व अपना व श्रमिक का चित्र लेकर छात्र आयेंगे तथा कक्षा में परियोजना कार्य करवाया जाएगा।)

**Dr. Virendra Swarup Education Centre, Kidwai Nagar**

**Class VIII Mathematics Holiday Homework 2018-19**

Q1 Find the smallest number by which 2592 must be multiplied so that the product is a perfect square. Also find the square root of the perfect square number.

Q2 A man, after a tour, finds that he had spent every day as many rupees as the number of days he had been on tour. How long did his tour last, if he had spent in all ₹1296?

Q3 Evaluate (a)  $\sqrt{\left(5 + 2\frac{21}{25}\right) \times \frac{0.169}{1.6}}$  (b)  $\sqrt{1\frac{4}{5}} \times \sqrt{14\frac{21}{44} \times 2\frac{7}{55}}$

(c)  $\sqrt{5\left(2\frac{3}{4} - \frac{3}{10}\right)}$  (d)  $\sqrt{(0.5)^3 \times 6 \times 3^5}$

Q4 Find the square root of the following correct upto 2d.p. (a) 32 (b) 245 (c)  $3\frac{4}{5}$   
(d) 5.2005 (e) 0.602 (f) 0.008 (g) 23 (h) 7

Q5 Simplify  $\frac{1}{x^2-3x+2} - \frac{1}{x^2-5x+6}$

Q6 (a)  $(x+1)(2x+1) = (x+3)(2x+3) - 14$  (b)  $\frac{2x-3}{3x-1} = \frac{2x+3}{3x+4}$

(c)  $\frac{4-5x}{6} - \frac{1-2x}{3} = \frac{13}{42}$  (d)  $\frac{5x+1}{2} - \frac{x-2}{6} = \frac{2x+4}{3}$

Q7 Four times a number exceeds its one third by 121. Find the number.

Q8 A number decreased by 5% of itself gives 114. Find the number.

Q9 The sum of three consecutive odd integers is 150. Find the integers.

Q10 Divide 420 into two parts such that one sixth of one part may exceed one third of the other part by 10.

Q11 Raju's father is thrice as old as Raju. 6 yrs hence, his father will be 24 yrs older than Raju. How old is Raju?

Q12 A rectangle is 8 cm long and 5 cm wide. Its perimeter is doubled when each of its sides is increased by x cm. Find the length of the new rectangle.

Q13 The difference of two numbers is 3 and the difference of their squares is 69. Find the numbers.

Q14 Factorise : (a)  $4x^2 - 81y^2$  (b)  $14x^2 + x - 3$  (c)  $4 + y - 14y^2$  (d)  $x^2 - x - 72$

(e)  $8 + 6(a + b) - 5(a + b)^2$  (f)  $2 - 8x^2$  (g)  $x^2 + 6xy + 9y^2 + x + 3y$

Q15 The sum of a number and its reciprocal is 5.2. Find the number.

Q16 Find two consecutive odd natural numbers such that the sum of their squares is 130.

Q17 Solve for x : (a)  $(3x + 1)(2x + 3) = 3$  (b)  $(x + 1)(x - 1) = 120$

(c)  $x + \frac{1}{x} = 8.125$  (d)  $\frac{150}{x-5} - \frac{150}{x} = 1$  (e)  $\frac{x}{3} + \frac{9}{x} = 4$

Q18 Find two consecutive whole numbers whose product is 72.

Q19 The square of a positive number added to one fourth of it is equal to 17. Find the number.

Q20 Make x the subject in  $a = \sqrt{\frac{x+b}{x-b}}$

Q21 If  $a = \frac{bc}{b+c}$ ; find c when  $a = 11\frac{1}{9}$  and  $b = 25$

Q22 If  $s = ut - \frac{1}{2}gt^2$ , find the value of g, if  $t = 2.5$ ,  $s = 45$ ,  $u = 50$

Q23 Make r the subject in  $V = \pi(R^2 - r^2)h$

Q24 Factorise : (a)  $x^4 - 14x^2y^2 - 51y^4$  (b)  $x(12x + 7) - 10$  (c)  $(4 - x)^2 - 2x$

(d)  $4(2a - 3)^2 - 3(2a - 3)(a - 1) - 7(a - 1)^2$  (e)  $x^2 - 6xy - 7y^2$

Q25 Sum of the digits of a two digit number is 8. If the reversed number is 18 more than the original number, find the number.