

GURU HAR RAI ACADEMY

HOLIDAY HOME WORK [2018-2019]

CLASS: VIII

| SUBJECT ↓ | ↓ HOME WORK ↓ | | | | | | | | | | | | | | | |
|------------------|--|------|---------|---------|--------|---------|---|--|--|--|--|---|--|--|--|--|
| ENGLISH | # Sheet given. | | | | | | | | | | | | | | | |
| BIOLOGY | # Draw a chart displaying various types of vegetative propagation and complete (Pg no. 41 – 42) of your book. | | | | | | | | | | | | | | | |
| CHEMISTRY | # Draw a chart of P block elements of periodic table and learn their name, Symbol, Atomic number and Atomic Mass. | | | | | | | | | | | | | | | |
| PHYSICS | # Observe 10 objects in your surroundings and measure their masses and volumes. With the help of these Measurements and by using a formula “Density = Mass / Volume”, Calculate their densities. <table border="1"><thead><tr><th>S.N.</th><th>OBJECTS</th><th>MASS</th><th>VOLUME</th><th>DENSITY</th></tr></thead><tbody><tr><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td></td><td></td><td></td><td></td></tr></tbody></table> # Make any one model on <ul style="list-style-type: none">○ Newton’s color disc○ Kaleidoscope | S.N. | OBJECTS | MASS | VOLUME | DENSITY | 1 | | | | | 2 | | | | |
| S.N. | OBJECTS | MASS | VOLUME | DENSITY | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| MATHS | # Sheet given. | | | | | | | | | | | | | | | |
| GEOGRAPHY | # Make a list of 10 important rivers of India, Mention its source and mouth. Mention through which state They flow. # On a blank outline map of Asia, mark all the physical features using appropriate colors. | | | | | | | | | | | | | | | |
| HISTORY / CIVICS | # Give detail information of UNO and draw / paste pictures of its organs agencies symbols etc. (In note book) | | | | | | | | | | | | | | | |
| COMPUTER | # Write down at least 50 functions in excel. Write down their syntax, uses an example of each of them. # Collect information about different software’s used in app development. Which software you will prefer for developing app. | | | | | | | | | | | | | | | |
| HINDI | # निम्न विषयों पर लगभग २५० शब्दों का संक्षिप्त प्रस्ताव लिखिए # संयुक्त परिवार के किसी ऐसे उत्सव के आनंद का विस्तार से वर्णन कीजिये, जहाँ आपके परिवार के बच्चे बुजुर्ग सभी उपस्थित थे # देश के निर्माण और उज्ज्वल भविष्य में विद्यार्थियों की भूमिका असंदिग्ध है क्योंकि आज के विद्यार्थी देश के भावी कर्णधार हैं | | | | | | | | | | | | | | | |
| SANSKRIT | # संस्कृत श्लोक (२) आकर्षक चित्र के साथ लिखें तथा चित्र का सीधा सम्बन्ध श्लोक से होना चाहिए # उपयोगी शब्दावली से पक्षियों तथा फलों के (संस्कृत में) नाम आकर्षक चित्रों के साथ अंकित करें | | | | | | | | | | | | | | | |

Note:-

* Do all the homework’s in one single scrap book.

* Learn the syllabus of all the subjects for 1st Unit Test

GURU HAR RAI ACADEMY

MATHS HOLIDAY HOMEWORK

CLASS 8th

CHAPTER- 1

Q.1. Find the additive inverse of:- a) $\frac{-18}{-11}$ b) -18

Q.2. Simplify: - a) $\frac{2}{5} + (\frac{-3}{8}) + \frac{4}{5} + \frac{7}{8} - \frac{2}{3} - 2$

b) $\frac{7}{9} \times \frac{3}{5} \times (\frac{-17}{8}) \times (\frac{-16}{5}) \times 3$ c) $(\frac{-11}{26}) \div (\frac{-33}{52})$

Q.3. Write the multiplicative inverse of (a) $\frac{-7}{16}$ (b) $\frac{3}{5} \times \frac{9}{4}$

Q.4. if $x = \frac{1}{2}$, $y = \frac{4}{3}$, $z = \frac{-3}{5}$ then verify : $x \times (y + z) = (x \times y) + (x \times z)$

Q.5. represent $\frac{3}{8}$ and $\frac{-3}{8}$ on the number line.

Q.6. Give three rational numbers lying between $\frac{1}{3}$ and $\frac{1}{5}$.

Q.7. The sum of two rational numbers is $\frac{3}{2}$. If one of them is $\frac{-3}{10}$ find the other.

Q.8. Divide the sum of $\frac{43}{12}$ and $\frac{7}{3}$ by their difference.

Q.9. By what number should we divide $\frac{-33}{8}$, so that the required number may be $\frac{-11}{2}$.

Q.10. Without adding find the sum:-

$$1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17 + 19 + 21$$

Q.11. Find the square roots by using prime factorization:-

(a) 7744 (b) 7056

Q.12. A PT teacher wants to arrange maximum possible number of 6000 students in a field such that the number of rows is equal to the number of columns, Find the number of rows if 71 students were left out after the arrangement.

Q.13. Find the least square number which is divisible by each of the numbers 9, 10, 12 and 15.

Q.14. Find the square roots using division method :-

a) 1849 b) 5776

Q.15. Find the least number which must be subtracted from the following numbers so as to leave a perfect square. Also find the square root of the perfect square so obtained.

a) 5607 b) 18265

Q.16. Simplify:-

$$\frac{\sqrt{13.69} + \sqrt{18.49}}{\sqrt{15129} - \sqrt{529}}$$

Q.17. Find the cube root of: - a) 13824

b) 110592

Q.18. Write the following sets in roster form:-

a) The set of factors of 96

b) The set of letters of the word 'COMBINATION'.

Q.19. Write the following sets in set builder form:-

a) $\{-, -, -9, -6, -3, , 0, 3, 6, 9, - - -\}$

b) $\{1, \frac{1}{3}, \frac{1}{5}, \frac{1}{7}, \frac{1}{9}, \frac{1}{11}, \frac{1}{13}, \frac{1}{15}\}$

Q.20. Find the pairs of sets which are disjoint or overlapping:-

a) $P = \{\text{Letters of 'APRIL'}\}$, $Q = \{\text{Letters of 'NOVEMBER'}\}$

b) $P = \{\text{Odd natural numbers}\}$, $Q = \{\text{Even natural number}\}$

Q.21. Let $U = \{2, 4, 5, 6, 8, 10, 12, 14, 15, 16, 18, 20, 22, 24, 25\}$

$A = \{\text{Multiples of 2 less than 20}\}$

$B = \{5, 8, 10, 16, 25\}$

$C = \{10, 15, 20, 25\}$ then find:-

a) A'

b) B'

c) C'

d) $(A \cup B)'$

e) $(A \cap B)'$

Q.22. If $n(U) = 125$, $n(P) = 95$, $n(Q) = 35$, $n(P \cap Q) = 15$, Find :-

a) $n(P')$

b) $n(Q')$

c) $n((P \cup Q)')$

Q.23. Find the number whose 13% is 65.

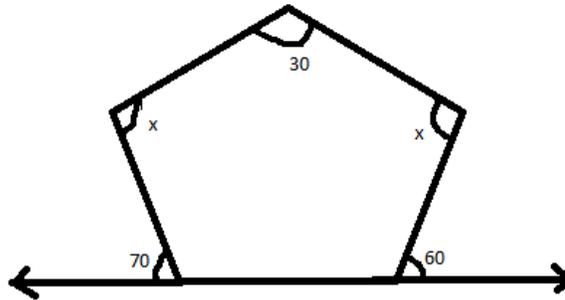
Q.24. 72% of 25 students are good in Mathematics, How many students are not good in it.

Q.25. 15% of the workers in a factory are male and the number of female workers is 272. Find the total numbers of workers in the factory.

Q.26. In an examination, 96% of the candidates passed and 50 failed. How many candidates appeared?

Q.27. The price of a scooter which was Rs 34000 last year, increased by 20 % this year. What is the price now?

Q.28. Find the angle of measure x in the following figure:-



Q.29. Find the measure of each exterior angle and interior angle of a regular 10 sided polygon.

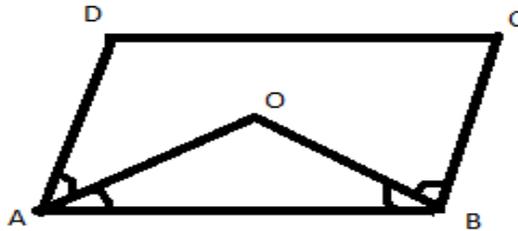
Q.30. How many sides does a regular polygon have if the measure of an exterior angle is :- a) 45° b) 36°

Q.31. In quadrilateral ABCD, $\angle A=60^\circ$, $\angle B=80^\circ$, and $\angle C=65^\circ$. Find the measure of $\angle D$. Is this a convex quadrilateral?

Q.32. The angles of a quadrilateral are in the ratio of 7:8:9:12. Find the measure of each angle.

Q.33. In the adjoining figure, ABCD is parallelogram, AO and BO are bisectors of $\angle A$ and $\angle B$ respectively.

Prove that $\angle AOB = 90^\circ$



Q.34. Heights (in cm) of 30 girls in a class are given below:-

140, 140, 160, 139, 153, 153, 146, 150, 148, 150, 152, 146, 154, 150, 160, 148, 150, 148, 140, 148, 153, 138, 152, 150, 148, 138, 152, 140, 146, 148

i) Prepare a frequency distribution table for the above data.

ii) Also represent the above information by bar graph.

Q.35. The following data shows the number of students offering different subjects in a school:-

| Subject | Number of student's |
|-------------|---------------------|
| English | 45 |
| Mathematics | 60 |
| Physics | 20 |
| Chemistry | 20 |
| Economics | 35 |
| | 180 |

Represent the above data by a pie chart :-

GURU HAR RAI ACADEMY
SUMMER HOLIDAY HOMEWORK
MATHS PROJECT
CLASS: VIII

Students are supposed to select only one project according to their roll number.

- 1) Note the maximum temperatures and minimum temperatures of 15 days from a news paper, Find out their average. Also plot the graph of these temperatures. **(Roll No: 1 to 10)**
- 2) Prepare a model of any building using solid figures made of cardboard.(Solid figures–cube, cuboid, cylinder, etc). **(Roll No: 11 to 20)**
- 3) Draw a circle on a cardboard, Divide into sectors and cut out them. Form a rectangle by using these cut outs of sectors, And prove the area of circle equals to the area of rectangle. **(Roll No: 21 to 30)**
- 4) With the help of a model prove Pythagoras theorem using squares and triangle shaped pieces of glaze papers pasted on a card board. **(Roll No: 31 to 40)**
- 5) Prepare a model of amazing transforming circle using A4 sheets and card sheet. **(Roll No: 41 to 50)**

GURU HAR RAI ACADEMY

HOLIDAY HOMEWORK

SUBJECT:- ENGLISH

CLASS 8TH

Q.1. With the help of the notes given below write a paragraph on:

We Are Happier Than Our Forefathers

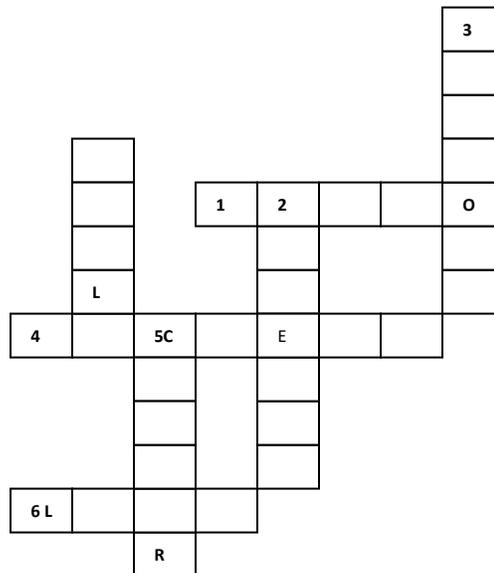
Life more comfortable forefathers would wonder at the changes no medical facilities.....died premature deathsmovement difficult illiterate and superstitiousnatural calamities fury of Gods..... luxurious life with advancement of scienceworld easily accessible man thinks rationally solves problems easily hygienic conditions longer span of lifebetter positionhappier than forefathers.

Q.2. ACTIVITY:-

i) Here are a few famous words coined by SHAKESPEARE. Find out in which plays they first appeared.

Lonely, hint, bandit, cold- blooded, blanket, green – eyed, tranquil, lower, submerge, dawn, radiance, assassination.

ii) How many SHAKESPEARE characters do you know? Solve this crossword to find out.



ACROSS:-

- 1) Juliet's Lover
- 4) He meets three witches and later becomes the King of Scotland.
- 6) The old king with three daughters.

DOWN:-

- 2) Moor of Venice
- 3) The Jew who wanted a pound of flesh
- 5) His last words were 'Et tu, Brutus?'
- 7) Woman disguised as man in Twelfth Night.