



**DSB INTERNATIONAL PUBLIC SCHOOL
RISHIKESH (UTTARAKHAND)
HOLIDAY HOMEWORK
CLASS 7**

Dear Students, The Summer vacation begins soon and school will re-open on 8th July 2024. Holiday Home Work can be downloaded from the School website . The holiday homework project has been designed keeping in mind learning objectives, purposeful activity and development of our young learners. *Here are the ways by which you can make your holidays fun and learning at the same time: *Speak in English as much as possible. *Help parents in small household chores like dusting, cleaning and watering the plants. *Read story books in English and Hindi. All work presented should be done by the student himself/herself. *Do all the Assignment in a neat and legible handwriting in the Homework notebook. *Pasting work to be done in a scrap book. *Parents are requested to just guide the children to complete the task on their own. Wishing all of you a relaxing, joyful holidays filled with memorable time with.

SUBJECT - SCIENCE

Q1. Explore a local ecosystem like a pond, forest, or garden. Describe the various organisms that live there and their interrelationships. Paste their photos in your activity notebook also.

Q2. Make a model on the topic according to your roll no. and share the video to your Science subject teacher.

Roll no. 1 Water Cycle Demonstration

Roll no. 2. Simple Machines Model

Roll no. 3 Digestive System Model

Roll no. 4. Electric Circuit Demonstration

Roll no. 5 Layers of the Earth Model

Roll no. 6 Animal Cell Model

Roll no. 7 Plant Cell Model

Roll no. 8 Photosynthesis Experiment

Roll no. 9 Food Chain Model

Roll no. 10. Human Respiratory System Model

Roll no. 11. Magnetic Field Demonstration

Roll no. 12 DNA Structure Model

Roll no. 13 Seed Germination Experiment

Roll no. 14 Environmental Pollution Mode

Roll no. 15 Human Brain Model

Roll no. 16 Sound Waves Experiment

Roll no. 17 Lunar Eclipse Simulation

Roll no. 18 Hydroponic Plant Growth Experiment

Roll no. 19 Endangered Species Awareness Model

Roll no. 20 Renewable Energy Model

Roll no 21 Human Heart Model

Roll no. 22 Tectonic Plate Movement Simulation

Roll no. 23 Climate Change Impact Model

Roll no. 24 Greenhouse Effect Demonstration

Roll no. 25 Solar Water Purification Experiment

Roll no. 26 Astronomical Telescope Construction

Roll no. 27 Biodiversity Conservation Model

Roll no. 28 Soil erosion prevention model.

Roll no. 29 Design and build any bridges using paper and tape and test how much weight they can support.

Roll. No 30. Newton cradle

Roll no. 31. Solar eclipse model

Roll no.32. food pyramid model

Roll no. 33. Endangered species model

Roll no.34 human ear model

Roll no.34 Prism and Rainbow formation model

Roll no. 35 conduction Convection and radiation model

Roll no. 36. to Roll no. 40 Build Eco friendly mini green house model Individually

Subject - Mathematics

(All students will make a separate notebook for the holiday homework)

1) Choose any one topic for your Project from the following (a) and (b) part:-

a) Budgeting for my Dream Vacation :-

For Describing this Maths project the students are given an amount of Rs 50000 to plan a budget for their dream vacation with one of their friends. Students will do research on the cost of travel, lodging, meals and leisure. To do this activity students will plan 7-10 days vacation to a location of their choice with the given amount. Submit the report file on a word document as a hard copy.

b) Maths working model:-

The students can use their abilities to create models. These models will help them to learn the concept in a creative way. Students can select any topic from NCERT Maths textbook and make a 3D working model explaining the concept.

2)Worksheet of 36 extra questions based on UT-1 syllabus.

3) Write and learn Tables from 2 to 20.

Worksheet 1 INTEGERS

1. Evaluate the following:

(a) $-6 - (-13) - 3$
 $- 7 + 7 - 8$

(b) $110 - 10 + 11 - 1$

(c) $72 - (-9) - 9$

(d) -56

2. Fill in the boxes with $<$, $>$ or $=$.

(a) -79 , -47

(b) -65 , 80

(c) $-(-95)$, 57

(d) 56 , -87

3. Write the following integers in ascending order.

(a) $28, 15, 3, -4, -6$

(b) $17, 95, -19, -4, -7$

4. Write the following integers in descending order.

(a) $+3, 4, 5, 6, -3$

(b) $6, -1, -18, 43, 49$

5. Add:

(a) 75 and 14
 75

(b) -38 and 689

(c) 0 and -117

(d) 43 and -75

6. Subtract:

(a) 398 from -398
from -1

(b) -80 from 0

(c) -243 from -117

(d) 775

7. Multiply:

(a) 243 and 0

(b) -775 and -1

(c) 0 and -96

(d) -8 and -7

8. Divide:

(a) 1728 by -12

(b) -82 by -1

(c) 2197 by 13

(d) 27 by 3

9. An elevator descends into a mine shaft at the rate of 6 cm/sec. If it starts from 100 cm Shot on realme level, how long will it take to reach 216 cm below ground level?

10. The temperature in the Thar desert varies a lot. Ram, a Scientist from ISRO, observed the temperature for a week. He noticed that the temperature during day time was above zero up to

56°C and during night, it dropped by 45°C every day. If the temperature drops at the rate of 9°C per hour and starts dropping from 9 pm, at what time, will it be the coldest?

11. In a competitive exam, positive 4 was allotted for each correct answer and negative 2 was allotted for each incorrect answer. Aakanksha appeared for the exam and attempted 43 questions out of 100. If she is certain that she has marked 35 correct answers, calculate the marks obtained by her.

12. A spider tries to climb a wall 10 blocks high. It starts climbing at 6 o'clock in the morning, the spider climbs two blocks in one hour and takes rest for one hour. While resting, it falls back by the force of gravity down by one block. At what time will it reach the top?

13. Select the correct option.

(i) (17) multiplied by (-4) is equal to

- (a) 43 (b) -68 (c) 86 (d) 68

(ii) Negative of a negative integer is

- (a) positive (b) 0 (c) negative (d) does not exist

(iii) Greatest negative integer is

- (a) -1 (b) 0 (c) -9999999999 (d) does not exist

(iv) Commutative property does not hold true for

- (a) Multiplication (b) Addition (c) Subtraction (d) None

(v) $25 - (-5) + 6 =$

- (a) 20 (b) 26 (c) 36 (d) None

(vi) If $ax - 22 = 242$ then find a, if $x = -24$

- (a) 11 (b) 22 (c) -22 (d) -11

(vii) If the temperature drops 17°C below -1°C, the temperature will be

- (a) 17°C (b) 18°C (c) -17°C (d) -18°C

(viii) For any two integers, $a + b = b + a$

- (a) True (b) False
(c) Sometimes true and sometimes false (d) True for negative integers

(ix) $251 + (-521) + (-731) + 891 = R$

- (a) 10 (b) 110 (c) -110 (d) -10

Worksheet -2 FRACTIONS

1. Classify the following fractions as proper and improper fractions.

- (a) $\frac{201}{777}$ (b) $\frac{113}{115}$ (c) $\frac{4}{23}$ (d) $\frac{12}{9}$

2. Fill in the boxes by $>$, $<$ or $=$.

- (a) 25,810 (b) 1247, 177 (c) 52, 386
(d) 193, 12

3. Add:

- (a) 4 and $\frac{317}{58}$ and $\frac{246}{58}$ (b) 435 and $\frac{278}{58}$ (c) 38 and $\frac{83}{58}$ (d) 1

✓

4. Subtract:

- (a) $2\frac{34}{52} - 1\frac{65}{34}$ (b) $135 - 2\frac{116}{52}$ (c) $815 - \frac{521}{52}$ (d)

5. Multiply:

- (a) 214 and $\frac{137}{52}$ (b) $1\frac{12}{52}$ and 2112 (c) 89 and $\frac{97}{52}$

6. Divide:

- (a) 413 by $1\frac{49}{52}$ (b) 67 and $\frac{94}{52}$ (c) 227 by $3\frac{15}{52}$

7. Rajni wrote of a book in first 3 months of a year and half of the remaining in the next 9 3 months. Rajni wants to complete the book in the same year. If the book will have 729 pages in total, find out how many pages are left to be written?

8. Captain Jack Sparrow started sailing when he was 16. At the age of 19, he covered of $\frac{8}{10}$ the Pacific Ocean and at 21, he completed of the remaining part. Find out what part $\frac{8}{10}$ of the sea still remains to be explored?

9. The hulk is known for his supreme strength and behemoth diet. If he eats 1 chapattis in the morning. of the remaining in the afternoon, $\frac{2}{4}$ of 1000 of the rest in the evening and keeps the remaining chapattis to satiate his midnight craving, find out how many chapattis did he eat in the morning, afternoon, evening and at midnight.

10. In a 4-day college recruitment drive, an MNC hires 216 boys and 252 girls. In total $\frac{1}{6}$ of boys and $\frac{1}{4}$ of girls on Monday, 80 boys and 89 girls on Tuesday, $\frac{1}{5}$ of the rest (for boys and

for girls) on Wednesday, and 80 boys and 80 girls on Thursday. Find out how many boys and girls are recruited on Monday and Wednesday?

Worksheet 3 Decimals

1. Evaluate the following:

- (a) $7.84 + 0.343 - 4.017$
 $3.43 - 0.0067$
- (b) $3.879 - 2.25 - 0.45$
- (c) $3.5 - 3.43 - 0.0067$
- (d) $53.9 - 231.66 + 549.945$
- (e) $7.675 - 24.876 - 43.750$

2. Fill in the boxes with $>$, $<$ or $=$.

- (a) 19.966 19.888
 1.603
- (b) 7.25 9.4005
- (c) 16.03
- (d) 150.75 48.25
- (e) $12.10 - 22.01$

3. Write the following in ascending as well as descending order.

- (a) 459.22 , 7.0309 , 0.203 , 4.73 , 47.3
 4.88
- (b) 239.60 , 0.549 , 5.8007 , 239.80 , 23.960
 3999.3
- (c) 50.7 , 852.073 , 70.52 , 4.8806 ,
 4.88
- (d) 33.99 , 3.399 , 339.9 , 0.3999 ,
 3999.3
- (e) 2.7 , 35.82 , 140.052 , 8.09 , 0.9273

4. Convert the following into decimal fractions.

- (a) $\frac{3}{4}$ (b) $\frac{7}{5}$ (c) $\frac{14}{13}$ (d) $\frac{9}{11}$

5. Add:

- (a) $3.5 + 2.43$
 $0.54 + 8.57$
- (b) $2.987 + 1.25$
- (c) $2.987 + 1.25$
- (d) $52.9 + 2.004$
- (e) $89.376 + 0.683$

6. Subtract:

- (a) 0.43 from 0.91
- (b) 0.0736 from 0.6095
- (c) 0.2001 from 0.5002
- (d) 0.243 from 0.586

7. Multiply:

- (a) 72.50 and 54.23
- (b) 2.57 and 0.048
- (c) 2.856×532.43
- (d) 0.854×54.8
- (e) 0.04×0.05

8. Divide:

(a) 4.23 by 0.943

(b) 1.83 by 0.636

(c) 35 by 0.07

(d) 0.0829 by 0.01

9. Meera buys 12.25 kg of apples everyday during the month of February, 2012. The weighing machine at the shop has an error due to which it displays the weight less by 45 gms. If such is the case, calculate the total weight of apples bought by her in the whole month.

10. Shweta bought 3.25 kg of apples, 12 bananas each of 100 grams, one kg sugar, 770 grams brinjal and 13.234 kg of flour. What will be the total weight that she will carry home?

11. A scientist named Gunjan made a submarine which travelled at a speed of 37.4257 nautical miles per hour. If Gunjan decides to cross a part of the Pacific Ocean of distance 4700 miles by the submarine, how much time will the journey take? (1 nautical mile = 1.1507 mile)

12. If the cost of 37 guavas is 414.75. What will be the cost of 47 guavas?

13. Select the correct option.

(1) Simplify: $609.73 \times 4.323 =$

(a) 2635.863
614.053

(b) 2432.8

(c) 32.64

(d)

(ii) Find the quotient when 2.327 is divided by 0.003

(a) 7.743

(b) 77.43

(c) 775.67

(d) 43

(iii) Evaluate: $91.82 \times 0.01 - 0.52 + 0.43 =$

(a) 2.9
76.12

(b) -0.29

(c) 0.29

(d)

(iv) $24.62912.8 =$

(a) 1.924

(b) 1.575

(c) 10.25

(d) 1.05

(v) What is the area of a square whose side is 17.335 cm?

(a) 3.00 mm^2
 3.0050 cm^2

(b) 300.50 m^2

(c) 30050.22 mm^2

(d)

SUBJECT-SOCIAL STUDIES

Roll No 1 to 10:- Make a Collage of Freedom Fighters of Uttarakhand along with short description.

Roll No 11 to 20:- Make a Collage of Uttarakhand State, symbols and describe them.

Roll No 21 to 30:- Make a Collage of culture and heritage of Uttarakhand (Dance, architecture, folklore, festivals etc...)

Roll No 31 to last roll no: - Make a Collage Tourism in Uttarakhand (pictures and information to be included)

#. Read any one good story book and write a review on it.