

# Dashain-Tihar Vacation Homework 2071

## Class 8 (A+B+C)

### Subject: Our English

1. Change the following sentence into all the tense aspects.

They cook food.

Positive, Negative & Yes/no Questions:

Tense/Aspect	Simple	Continuous	Past Perfect	Perfect Continuous
Present				
Past				
Future				

2. Write some auxiliary verbs.

Be	Do	Have	Modals

3. Write some active and passive structures. (page: 98 grammar)
4. Write some uses of preposition (on, in, at).
5. Write Some Active and Passive structures.
6. Unit: 3. Page No. 14 Ex. 3.1 'b'.
7. Why were people afraid of Genghis Khan?
8. When was Janaki Mandir built?
9. How was the path? Describe it.
10. How big is Ayer's rock?
11. What do you mean by 'glacier'?
12. Write a short letter to your asking her sister how she is at home
13. Write an application letter to your class teacher asking one-day sick leave
14. Write an essay on Natural resources of Nepal.

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### Subject: Spark English

1. 1 Page writing from the story 'Growing a son' (Pg -71).
2. Write down word meaning. Pg -72.
3. Complete the following sentences. Pg - 43 Ex -12.
4. Supply correct question tags.Pg-44 Ex-a (a to h )
5. Find the words from the text as indicated. Pg-72 Ex-6 (all )
6. Tick the correct answer. Pg-31 Ex-1 (all )
7. Write down synonym for the following.  
(a) vague (b) blunder (b) forgive (b) art (b) incident (b) explain
8. Write down antonym for the following.  
(a) create (b) generous (c) comic (d) road (e) start (f) label
9. Make sentences using the following words.  
(a) ghost (b) junk (c) ability (d) reward
10. Answer the following questions:  
a.Where did Arohan grow up?  
b.What food did Arohan take to school?  
c.What happened when the ghost visited the twins bedroom?  
d.How did Ms Otis make the ghost angry?  
e.What announcement did the emperor make?
11. Change the sentences as indicated in the bracket's\;\;  
a.Rikky reads several books. (Negative )  
b.They are going to the market. (Simple future )  
c.Hari wrote a letter. (Present perfect )  
d.He has come home late. (Interrogative )  
e.They are playing games. (Past continuous )
12. Write a letter to your class teacher giving the reason why you were absent for 3 days.
13. Write a short paragraph describing about your plan for Dashain Vacation.
14. Write an essay on "Agriculture in Nepal ".

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## Writing pattern

Write 10 pages writing of the following proverbs :

- |                                     |   |
|-------------------------------------|---|
| 1. After a storm comes a calm.      | 6. Always desires to learn something.     |
| 2. It's always too early to quit.   | 7. Learning is the beginning of wealth.   |
| 3. Only the educated are free.      | 8. Never complain and never explain.      |
| 4. There is always room at the top. | 9. What you plant now will harvest later. |
| 5. Never give in and never give up. | 10. Well done is better than well said.   |

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## विषय : नेपाली

तल सोधिएका प्रश्नहरूको सफा नोट तयार पार्नुहोस् :

- तलका प्रश्नहरूको संक्षिप्त उत्तर लेख्नुहोस् :  
क) मानिसका लागि कानून किन आवश्यक छ ?  
ख) बूढा व्यापारीलाई युवकका कुनकुन कार्यले अचम्मि पारे ?
- तलको प्रश्नको विवेचनात्मक उत्तर दिनुहोस् :  
रिमालले नेपाली साहित्यलाई कसरी उज्ज्वल तुल्याए ?
- 'मेरो जीवजनको लक्ष्य' शीर्षकमा १५० शब्दसम्मको निबन्ध लेख्नुहोस् ।
- दसैं विदामा आफू घुमेको कुनै एउटा रमाइलो ठाउँको बयान गर्दै साथीलाई चिठी लेख ।

## व्याकरण

- पाठ ९ पेज २९ अभ्यास ४ 'क' देखि 'ज' सम्म गर ।
- पाठ १९ पेज ८८ अभ्यास ७ 'क' देखि 'ज' सम्म गर ।

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## हस्तलेखन

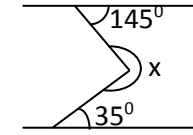
जम्मा १० पेज

- |                          |                     |
|--------------------------|---------------------|
| (१) मेरो कर्तव्य         | (२) अनुशासन         |
| (३) घरमा बाबुको दायित्व  | (४) विद्यार्थी जीवन |
| (५) मलाई मनपर्ने चलचित्र |                     |

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## Subject: C. Maths

- Simplify:  
(a)  $a^4 - 81$  (b)  $a^8 - b^8$
- Factorise:  
(a)  $x^2 + 17x + 42$  (b)  $x^2 + 4x - 102$
- Find H.C.F of the expression:  $x^2 + 6x + 8$ ,  $x^2 + 9x + 20$ ,  $x^2 + 7x + 10$
- Find L.C.M of the expression:  $x^2 + 4x + 4$ ,  $x^2 - 4$ ,  $x^2 + 8x + 12$
- Reduce the rational expression:  $\frac{2a^3 - 50a}{a^3 + 4a^2 - 45a}$
- Simplify:  $\frac{x-1}{x^2-3x+2} + \frac{x-2}{x^2-5x+6} + \frac{x-5}{x^2-8x+15}$
- Simplify:  $\frac{x^2+5x+6}{a^2+3a-4} \times \frac{x^2-9}{a^2-16}$
- Draw a line segment AB. Mark a point O on AB and draw an angle BOC. Measure  $\angle BOC$  and  $\angle AOC$ . Verify  $\angle BOC + \angle AOC = 180^\circ$ .
- Find the unknown sizes of angles.



- If 660 m of wire is required to fence a circular ground with 3 rounds. Find the diameter of the ground.
- Find the area of the following figure.  
a)
- The perimeter of a square room is 40m.  
i) find its length.  
ii) find the area of its floor  
iii) find the cost of carpeting the floor at Rs 70 per sq metre
- A square field is 18.5m long. If it is to be fenced with five rounds, find the cost of fencing at s 16 per meter.
- In the adjoining figure if  $a + b + c = 180^\circ$ , prove that  $x = b + c$ .

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## Subject: Science

### 1. Identify the fundamental and derived units from the following:

- (i) Meter      (ii) joule      (iii) Pascal      (iv) hertz  
(v) second      (vi) candela      (vii) newton      (viii) mole

2. What is meant by scalar and vector quantity?  
3. No machines are 100% efficient, why?  
4. What do you mean by 1 Pascal pressure?  
5. What is temperature? In which principle thermometer constructed?

### Numerical problems:-

6. At what temperature do the Celsius scale and Fahrenheit scale coincide?  
7. The mass of the box is 1500 kg and the area of the bottom is 150 m<sup>2</sup>, find the pressure exerted on the ground.  
8. To lift a load of 200 N, an effort of 150 N is to be applied in two pulley system  
9. What will be its efficiency?  
10. A car starts to move from rest. if the acceleration of the car is 4 m/s<sup>2</sup>, what will be its final velocity after 5 seconds?

### 11. Balance the following chemical reactions:-

- (a)  $\text{KClO}_3 \rightarrow \text{KCl} + \text{O}_2$       (b)  $\text{Mg} + \text{N}_2 \rightarrow \text{Mg}_3\text{N}_2$   
(c)  $\text{Na} + \text{O}_2 \rightarrow \text{Na}_2\text{O}$       (d)  $\text{HCl} + \text{MgO} \rightarrow \text{MgCl}_2 + \text{H}_2\text{O}$   
(e)  $\text{H}_2\text{SO}_4 + \text{NaOH} \rightarrow \text{Na}_2\text{SO}_4 + \text{H}_2\text{O}$

### 12. Draw a neat and labeled diagram of plant cell.

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## Subject: Social

### Make note from the class work and homework Exercise books of Social Studies.

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## Subject: Population & Environment

Prepare a project work on the topic 'Cultural Heritage' that should include the following items:

Cover Page

Preface

Content

1. Introduction to Cultural Heritages
2. List of Cultural Heritages
3. Importance of Cultural Heritages
4. Description on any two Cultural Heritages of Nepal in detail.
5. Effects of Population growth on cultural heritages.
6. Ways to preserve and conserve cultural heritages.
7. Conclusion.

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## Subject: Optional Maths

1. Prove that:  $\frac{1-\sin^4 A}{\cos^4 A} = 1 + 2\tan^2 A$

2. Prove that:-  $\sqrt{\frac{1+\sin A}{1-\sin A}} = \sec A + \tan A$

3. Prove that :-  $\frac{1}{1+\cos A} + \frac{1}{1-\cos A} = 2\operatorname{cosec}^2 A$

4. Prove that:-  $\frac{\cos A}{1+\sin A} + \frac{\cos A}{1-\sin A} = 2\sec A$

5. Rationalize the denominator:-  $\frac{\sqrt{2}+1}{\sqrt{2}-1}$

6. Find the arithmetic mean of 10,15,20,25,30,35

7. The mean of 3, 7, 10, 15 and x is 12. Find the value of x.

8. Find the median of the given data:- 6,8,10,12,14,16

9. Find the median of the given data:- 9,10,11,14,15

10. If  $A = \begin{bmatrix} 1 & 4 \\ 6 & 8 \end{bmatrix}$  and  $B = \begin{bmatrix} 6 & 9 \\ 12 & 13 \end{bmatrix}$ , Find  $2A+3B$

11. Simply:-  $\sqrt{72} + 2\sqrt{128} - 10\sqrt{50}$

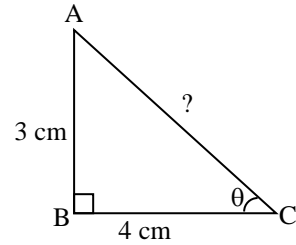
12. Convert into mixed surd:-  $\sqrt[3]{256}$

13. Convert into pure surd:-  $5\sqrt{3}$

14. Convert the following surds into same lowest order:-  $\sqrt{2}$  and  $\sqrt[3]{3}$

15. Arrange the following surds in ascending order of magnitude:-  $\sqrt[3]{2}$ ,  $\sqrt{3}$ ,  $\sqrt[6]{20}$

16. Prove that:  $\frac{1}{\sin^2} + \frac{1}{\tan^2 A} = 1$
17. Prove that:  $\frac{\tan A}{\sec A} + \frac{\sin A}{\operatorname{cosec} A} = 1$
18. From the figure alongside, find the length of unknown side.



19. The perimeter of a right angled triangle is 36 cm. If the hypotenuse, perpendicular and base are in the ratio 5:4:3, find the sides of right angled triangle.
20. Simplify :  $\sqrt{27} + 3\sqrt{12} - 4\sqrt{3}$
21. Simplify:  $\sqrt{10} \times \sqrt{50}$
22. Simplify:  $\sqrt{72} \div \sqrt{32}$
23. Find x and y Such that:  $\begin{bmatrix} 2 & y \\ x & 3 \end{bmatrix} = \begin{bmatrix} 2 & 4 \\ 6 & 3 \end{bmatrix}$
24. If  $X = \begin{bmatrix} 4 & 5 \\ 6 & 8 \end{bmatrix}$  and  $Y = \begin{bmatrix} 2 & 3 \\ 4 & 5 \end{bmatrix}$ , find  $X + Y$
25. State the type of the following matrices:  
 (a)  $\begin{bmatrix} 3 & 4 \end{bmatrix}$                       (b)  $\begin{bmatrix} 4 \\ 5 \end{bmatrix}$

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### Subject: Accounts

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1. What do you mean by filing? What are the different types of filing method? List out.
2. What do you mean by alphabetical filing method? Write any two advantages and any two disadvantages?
3. What do you mean by numerical filing method? Write its any two merits any two demerits.
4. What do you mean by tax and taxation? What are different types of tax? List out .
5. What do you mean by insurance, life insurance and non life insurance?
6. Write any five advantages of insurance.

7. What do you mean by postal service and post office? What are the methods of sending letters through post office?
8. Write any five differences between ordinary letter an registered letter.
9. Write any three qualities of good letter.
10. What do mean by office resources? What are its types? List out .
11. Write the functions and duties of office assistant.
12. Write any five functions of office and mention the importance of office in five points.
13. What do you mean by office chief, branch chief and office assistant?

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### Subject: Computer Science

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#### 1. Project Work

1. Design the power point presentation on the topic of your favorite place(example- Pokhara, Kathmandu Valley , etc).
  - a) Design front page
  - b) Preface
  - c) Table of content
  - d) Power point slide (more than 5 slides)

Insert Text using word art, Insert Clip Art, Table, Chart, Smart Art, Picture or photos In printed form.

(Mention Your Name, class ,Roll and section clearly)

2. Make a note copy from:  
 chapter 1: History of Computer Development up to chapter 6: Word Processing with neat and clean handwriting.

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