1076 NADI SANGAM SCHOOL

YEAR 8

CONSOLIDATED

WEEKLY HOME STUDY PACKAGE: 21
SOLUTIONS

29/11 TO 03/12

2021

1076 NADI SANGAM SCHOOL
YEAR 8 MATHEMATICS WEEKLY HOME STUDY PACKAGE: 21 – 2021
SOLUTIONS

SECTION A   MULTIPLE CHOICE

1. What is the volume of 4 cubes, 2 flats, 1 block and 8 sticks?

A. 4218 cm³   B. 8124 cm³

C. 1284 cm³   D. 2182 cm³

2. What is the longest chord of a circle called?

A. Radius   B. Tangent

C. Diameter   D. Arc

3. A circle has a diameter of 24cm. What is the radius of the circle?

A 11 cm   B. 13 cm

C. 11.5cm   D. 12 cm

4. The Average of 5 scores is 72. The scores are as follows 82, 74, and 68, 79. What is the fifth score?

A. 75   B. 57

C. 80   D. 75

5. Rojesh got the following marks in a short-test?

                14, 15, 12, 8, 13

What is the range of the scores?

A. 6   B. 22

C. 27   D. 7

6. You were invited to a party of your friend. There were eight people. If every invited guest shook hands with everybody else only once, how many handshakes will be there altogether? **n (n-1)/2**

A. 28   B. 23

C. 21   D 26

7. The radius of a circle is 4.5cm. What is the Diameter?

A. 8.5 cm   B. 9 cm

C. 7.5 cm   D. 6.5 cm

8. The Diameter of a lake is measured to be 21 KM. What is the circumference of the lake? (Use $\pi = 22/7$)

A. 45 km   B. 48 km

C. 66 km   D. 60km

9. A circle has a radius of 7cm. What is the area of the circle?
(Use $\pi = 22/7$)

A. 60 cm²   B. 35 cm²

C. 154 cm²   D. 44cm²

10. What number is represented by III?

A. 3   B. 4
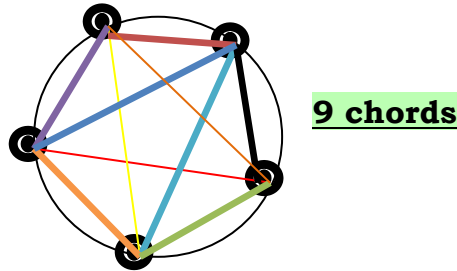
C. 5   D. 2

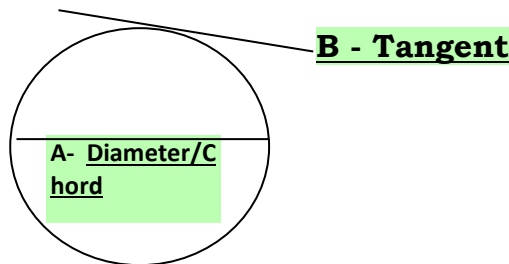**SECTION B**   **PROBLEM SOLVING**

Show all the necessary working.

1. Aryan scored 480 marks in 5 subjects. What is his average mark?

$$A= \frac{\text{Sum of all scores}}{\text{Number of scores}}$$
$$= \frac{480}{5}$$
$$= \textbf{96}$$

2. There are 5 points on the circumference of a circle. What is the total number of chords that can be drawn?

9 chords

3. Label the parts shown on the circle below.

B - Tangent

A- Diameter/Chord

4. The base area of a cylinder is 14cm² and the height is 6cm.What is the volume of the cylinder?

$$V= A \times h$$
$$= 14 \times 6$$
$$= \textbf{84cm}^3$$

5. If the volume of a cube is 1 cm³.What is the volume of 54 cubes?

54cm³

6. The circumference of a circle is 66 cm. (Use π = 22/7) what is the radius of the circle?

$$C=2\pi r$$
$$66 = 2 \times 22/7 \times r$$
$$66 = 44/7 \times r$$
$$r = 66/44/7$$
$$= \textbf{10}^1/_2 \textbf{ cm or 10.5 cm}$$

7. The wheel of a bicycle measures 70cm in diameter. How far does the wheel travel when it turns round twice? (Use π= 3.14)

$$C=\pi d$$
$$= 3.14 \times 70 \times 2$$
$$= \textbf{439.6cm}$$

8. The information given below shows the hours of sunshine recorded at Nadi for a week.

4.6 hrs, 9.2hrs, 1.3hrs, 1.6hrs, 5.3hrs, 10.5hrs, 8.2hrs

What is the range?

$$R = H - L$$
$$= 10.5 - 1.3$$
$$= \textbf{9.2hrs}$$

9. What is half a circle called?

A Semi-circle

10. Use the frequency table given below to answer the questions.

MARKS	TALLY	FREQUENCY
0	II	2
1	III	3
2	I	1
3	IIII	4
4	II	2
5	IIII II	7
6	III	3
7	IIII IIII I	11
8	II	2
9		0
10	I	1
Total		36

A) What is the lowest mark?

0

B) How many students scored more than 6 marks?

$11 + 2 + 1 =$ **14 students**

Title : **Swiss Family Robinson**

Review Questions .

Chapter 4: We Visit the Wreck
1. What attacked Flora and Turk in the night?

Several jackals attacked their dogs in the night

2. Why did Mr Robinson and Fritz returned to the wrecked ship?

They returned to bring the leftover food and equipment which they need.

3. What name did Fritz and Mr Robinson gave to the sail ship which they made?
" The Deliverance"

4. Why did the family felt like KINGS ?
They were welcomed by their family joyfully.

Chapter 16: We Are in Great Danger

1. What made the snake go in the marsh?
Due to the few shots fired by Mr Robinson and Fritz so instead of coming towards them it diverts itself into the marsh.

2. How did Grizzle get out of the stable?
Mrs Robinson left the stable open after the feeding animals so Grizzle went out.

3. Why were Mr Robinson and Fritz able to go near the snake to shoot it?
The snake was helpless after a heavy meal (ate donkey)

A. Write True or False and state with reasons to justify your answer.

1. A habitat is all the things that surround an organisms. ***False – its an exact place of an organisms e.g a fish lives in the sea.***

2. An organisms that feeds on plants is called a carnivore – ***False – Its called a herbivore. Carnivore feeds on animals .***

3. In a chemical reaction the product formed can be reversed – ***False – It is reversible because it undergoes heat and a new product is formed.***

4. Sieve can separate a mixture of oil and water – ***False – Sieve is used in grains whereas a filter paper can be used to separate oil and water because it has different densities.***

5. Current will flow in a closed circuit- **False – In an open circuit current flows**

6. During a lunar eclipse Earth block the stars.
   False – It blocks the moon

7. The layer of the air which surrounds the earth is called weather.
   False – The layer of the air is called the atmosphere.

8. The most fertile layer of the soil is the subsoil – ***False it is the top soil***

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A. GLOSSARY

Define the following terms:

1. **actual resource**: type of natural resource that has been surveyed for quality and quantity use in present time.
2. **biotic resource**: renewable resources that include the plants and animals
3. **communique**: an official announcement or statement

4. **democratic**: a form of government in which people can choose leaders by voting.
5. **epidemic**: an out break of disease or illness in a population or area.

6. f**ascism**: a government system led by a dictator having complete power
7. **governance**: the action of controlling / governing

8. **historian**: an expert in history

9. **investment**: the purchase of goods that are not consumed today but are used in the future to create wealth.

10 **merit**: the quality of being particularly good or worthy

B.

1. Collect evidence and discuss about the use of time and money on our lives and their effects.

No matter how little or how much money you have , spending it wisely is a good idea , it enables you to get the most for your money.

2. Sort and discuss methods to approve proper managing of time and money

(TO BE DISCUSSED DURING OUR NEXT ONLINE CLASS)

SHORT ANSWER QUESTION

1. Between which age most girls start having their menstruation?
   Usually between the ages of 10 and 16. (Reports have shown that 8 year old are becoming pregnant)

2. Define the term menstruation/ period?
   The process of a woman of discharging blood and other material from the lining of the uterus at intervals of about one lunar month from puberty until the menopause, except during pregnancy.

3. Define the term ejaculation
   The action of ejecting semen from the body

4. Write down at least 2 unsafe environment you have studied about?
   Slippery floor / walkway/verandah/stairways.
   Dangerous stairways
   Bad lighting/ very wet playground
   Poorly maintained building e.g. toilet block/classroom

5. Define the term resiliency?
   It is the ability to overcome challenges of all kinds like trauma, tragedy/personal crisis and bounce back stronger, wiser and more personally powerful.

6. Write down 2 safety rules while you are on the road?
   Walk on sidewalks whenever they are available / if there is no sidewalk, walk facing traffic and as far from traffic as possible. Keep alert at all times, do not be distracted by electronic device that takes your eyes and ears of the road.

7. Write down 2 water safety rules?
   Never swim alone/always wear a life jacket/ enter water feet first/supervise child when they are in the water/ stay away from pool drains.

8. In 2012, 800 teenage pregnancy case were recorded.
   Write down one bad effect of teenage pregnancy on the mother of the child.
   That there are a few teenage mothers who are able to bounce back and complete their education after giving birth.

9. Write one change that occur on boys during puberty?
   Voice deepens/ grow hair almost all over their bodies/muscles will get bigger making them stronger/ have fixed feelings and sensitivity/have intense emotions/mood swings/heavily influenced by peer pressure /become more aware of girls and seek new experiences

State 2 ways of taking care of respiratory system
Stay hydrated/ avoid smoking cigarettes and inhaling drugs/reduce smoking and alcohol intake/take part in a lot of physical activities /exercise.

A. Picture Composition

Expository Essay –Different views accepted as long its realistic.
Plan :
Para 1: Intro
. Vakamacalataka na veika e vakacacana se vakadukana na noda
vuravura.(Pollution) Solia so na ken a I vakaraitaki (examples)

Para 2: Vkanamata vakatabaki dua e na I yaloyalo
Vakamacalataka na benu e na vanua mamaca kei na kena revurevu. Nacava e
raw ani lai yaco. Mo vakasama vakarabai levu ka me soli se volai na ka e sa
yaco dina tiko e na nod avanua se vuravura.

Para 3 : Bolebole
N sala cava e rawa ni walia kina na leqa oqo .

PART 1   बोधन –Comprehension

दुनियाँ में दो तरह के लोग होते हैं । एक वो जो हमेशा सच बोलते हैं और दूसरा वो जो सदा झूठ बोलते हैं । वर्तमान में दोनों तरह के लोग जीते हैं ।जहाँ मान-सम्मान का सवाल आता हैं वहाँ सच बोलने वालों को ही आदर मिलता है ।

झूठ बोलने पाप है । जहाँ झूठ एक **निर्दोष** आदमी का चरित्र और नाम को बरबाद कर सकता है, वहीं सच एक मानव का सर गर्व से उँचा उठाता है । झूठा आदमी हीन भावना में डूबा रहता है । क्योंकि वह जानता है कि उसने झूठ बोला है । पकड़े जाने का भय उसे हमेशा लगा रहता है । वहीं पर सच्चाई देखाई के पुजारी के चेहरे पर चिन्ता, पछताव,घबराहट आदि के चिन्ह दिखाई नहीं देगी । वह खुश दिखाई देगा क्योंकि वह जानता है कि उसने सच कहा है ।

झूठ के पकड़े जाने पर लोग दूसरों से विश्वास और प्रेम खो बैठते हैं । ऐसे लोगों को लोग झूठा कहते हैं,**उनसे** दूर हो जाते हैं । समाज में ऐसे लोगों को कोई नहीं पसन्त करता है । चाहे कितनी चालाकी और होशियारी से झूठ बोला गया हो परन्तु उसकी सच्चाई एक दिन सामने अवश्य आती है । सच बोलने वालों को समाज में उँचा दर्जा मिलता है । वह दूसरे लोगों के लिए नमूना बनता है । लोग उनका आदर, विश्वास और गुण-गान करते हैं । हमें भी सदा सच्चाई के रास्ते पर चलना चाहिए ।

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1. दुनिया में कितने प्रकार के लोग होते हैं ?

क. एक   **ख. दो**
ग. तीन   घ. चार

2. कैसे लोगों को मान-सम्मान मिलता है ?

क. सच बोलने वालों को   ख. झूठ बोलने वालों को
ग. चालाकी करने वालों को   घ. होशियारी दिखाने वालों को

3. निर्दोष शब्द का क्या अर्थ है ?

क. जो दोष देता है ।   ख. जो दोषी होता है ।
ग. जिसका कोई दोष नहीं ।   घ. जिसका पूरा दोष है ।

4. झूठा आदमी क्यों हीन भावना में डूबा रहता है ?

क. अपने सच के कारण   **ख.** अपने झूठ के कारण
ग. अपनी खुशी के कारण   घ. अपनी चिन्ता के कारण

5. लोग कब दूसरों से विश्वास और प्रेम खो बैठते हैं ?

क. झूठ बोलने पर   ख. झूठ सोचने पर
ग. झूठ छुपाने पर   घ. झूठ पकड़ाने पर

6. उनसे शब्द किसके लिए आया है ?

क. झूठे लोगों   ख. सच्चे लोगों

ग. विश्वासी लोगों   घ. समाज के लोगों

7. पाठ के लिए सब से अच्छा विषय क्या हो सकता है ?

क. मान-सम्मान   ख. निर्दोष आदमी

ग. झूठ और सच   घ. हमारा समाज

8. सच बोलने वालों को समाज में कैसा दर्जा मिलता है ?

क. थोड़ा   ख. उँचा

ग. नीचा   घ. बराबर

इन प्रश्नों का उत्तर पूरे वाक्य में लिखिए ।

9. सच और झूठ के विषय में क्या कहा जा सकता है ?

सच बोलने वालों को समाज मै उँचा दर्जा मिलता है और झूठे लोग विश्वास और प्रेम खो बैठते है ।

10. इस पाठ से हमे क्या सीख मिलती है?

हमेशा सच का साथ देना चहिए।

PART 2   व्याकरण और प्रयोग

अ दिए गए शब्दों में से सही शब्द चुनकर इन वाक्यों को पूरा कीजिए । सही जवाब के बगल वामे अक्षर पर गोलाकार निशान बनाइए ।

1. घर जाने के लिए यह रास्ता बहुत ----------- है ।

क. लम्बे   ख. लम्बीं

ग. लम्बा   घ. लम्बी

2. राजू को ------------ बातें अच्छी नहीं लगती ।

क. बुरा   ख. बुरे

ग. बुरी   घ. बुरीं

3. शेरनी शब्द का पुल्लिंग शब्द क्या है ?

क. शेर   ख. नेवला

ग. हाथी   घ. घोड़ा

4. हाथ बाँधना, इस मुहावरे का सही अर्थ क्या है ।

क. चुप रहना   ख. थक जाना

ग. पीटना   घ. विरोध करना

5. मुझे किताब मिला ।इस वाक्य का भविष्य काल क्या है ?

क. मुझे किताब मिला था ।   ख. मुझे किताब मिलेगा ।

ग. मुझे किताब मिला है ।   घ. मुझे किताब मिल रहा है ।