1076 NADI SANGAM SCHOOL

YEAR 8

CONSOLIDATED

WEEKLY HOME STUDY PACKAGE:13 - SOLUTIONS
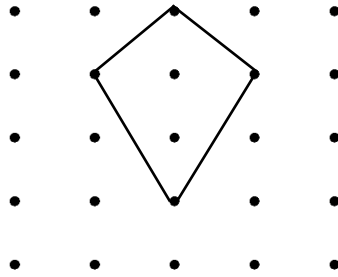
04/10 TO 08/10

2021

1076 NADI SANGAM SCHOOL
YEAR 8 MATHEMATICS WEEKLY HOME STUDY PACKAGE 13 SOLUTION
SECTION A   MULTIPLE-CHOICE QUESTIONS
Circle the letter of the best answer in your Answer Book.

1. The shape shown on the **5 x 5** geoboard is a

    A. **kite.**   B. rhombus.   C. trapezium.   D. parallelogram.
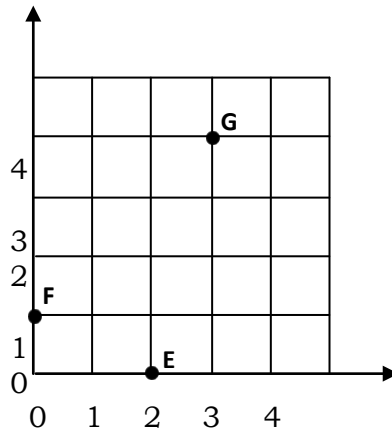
2. Which of the following expressions is correct?

    A. $\dfrac{4}{8} = \dfrac{4}{16}$ B. $\dfrac{3}{5} = \dfrac{12}{20}$ C. $\dfrac{3}{4} > \dfrac{6}{8}$ D. $\dfrac{7}{8} < \dfrac{1}{2}$

3. Points **E**, **F** and **G** are shown on the coordinate plane below.

   What would be the co-ordinates of Point **H** so that **E**, **F**, **G** and **H** form a parallelogram?

    A. **(5, 3)**   B. (5, 4)   C. (4, 2)   D.   (3, 5)

4. The number 6 050.28 rounded off to the nearest ten is
    A. 6 100   B. 6 050.3   C. 6 050.29   D. **6 050**

5. What is the width of a rectangle with a length of 12 cm and an area of 36 cm²?
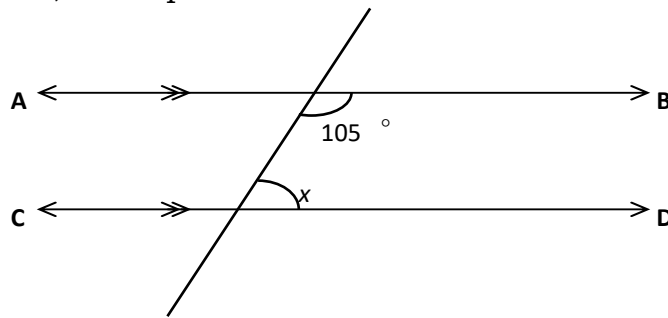   A. **3 cm**   B. 4 cm   C. 6 cm   D. 24 cm

6. $\dfrac{2}{10}$ expressed as a percentage is
    A. 0.02 %   B. 0.2 %   C. 2 %   D. **20 %**

7. Manasa cycles at an average speed of 4 km/hr. How long does he take to complete a distance of 22 km?
    A.   4 hours 30 minutes   B.   5 hours 10 minutes

C.   5 hours 15 minutes   D.   **5 hours 30 minutes**

8. In the figure below, **AB** is parallel to **CD**.

A ⟷ ———————————————— ⟷ B

105 °

x

C ⟷ ———————————————— ⟷ D

   What is the value of *x*?
      A. **75°**   B.   85°   C. 95°   D. 105°

9. The map drawn below shows 3 villages joined by a road. Refer to the diagram given below to answer the question that follows.

Mariko
River

Waivula

Korolevu

Nabua

0   1 c m
1 cm = 8 km
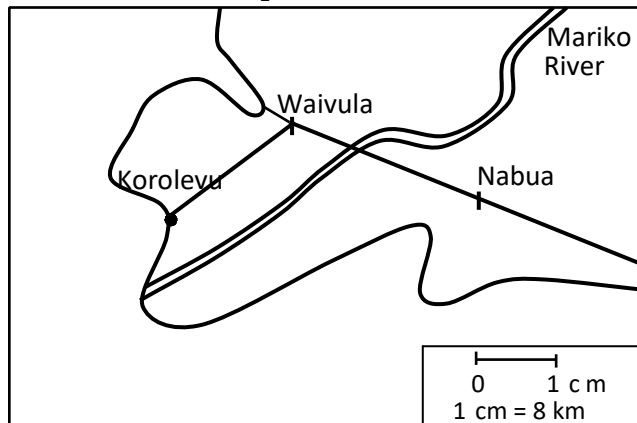
   The distance between Waivula and Nabua is
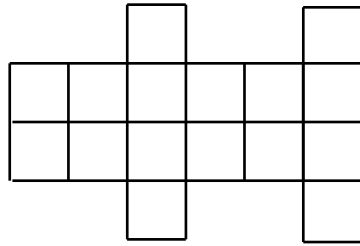   A. **16 km**   B. 18 km   C.   20 km   D.   24 km

10. Alvin jogged 2 miles each day for 6 days. Which equation could be used to find the total number of miles that Alvin jogged?
      A.   2 + 6
      B.   **2 x 6**
      C.   6 ÷ 2
      D.   6 – 2

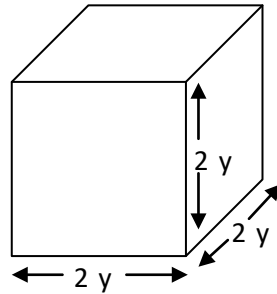11. Which pattern given below shows **5 x 3**?
   A.   ○○○○○
                    ○
                    ○

   B.   ○○○
            ○○○○○

   C.   ○○○○○
            ○○○○○
            ○○○○○

   D.   ○○○○○
            ○
            ○

12. How many tetrominoes have been used to make the shape given below?

    A. **4**   B. 6   C. 8   D. 16

13. Each side of a cube is **2y** cm long. What is the volume of the cube?

A. $2 y^3$ cm^3
B. $6 y$ cm^3
C. $8 y$ cm^3
D.   **$8 y^3$ cm^3**

14. Refer to the diagram given below to answer the question that follows.
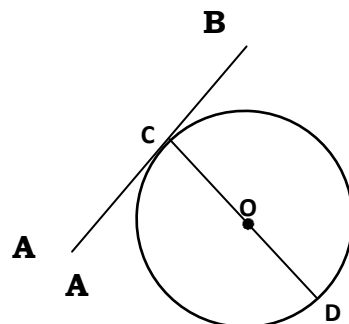
Line **AB** is
    A.   an arc.
    B.   a chord.
    C.   **a tangent.**
    D.   a diameter.

15.   What is the H.C.F. of 12 and 16?
    A.   **4**
    B.   6
    C.   12
    D.   16

16.   Which of the following is an improper fraction?

$$\text{A. } \frac{1}{4} \qquad \text{B. } \frac{3}{6} \qquad \text{C. } \frac{9}{8} \qquad \text{D.} \frac{100}{101}$$

17. The area of a square is 12.25 cm². What is its length?
    A. 4.5   cm
    B. 4   cm
    C. **3.5   cm**
    D. 3.25 cm

18. Aaniya borrowed $2 000 from a bank for 12 months at $2^1/_2$% per annum
What interest did she pay back?
    A. **$ 50**
    B. $ 500
    C. $ 2 050
    D. $ 2 500

19. The trapezium drawn below can be divided into 3 identical triangles.

    If the area of the shaded part is 16 cm², what is the area of the trapezium?
    A.   8 cm²
    B.   24 cm²
    C.   32 cm²
    D.   48 cm²

20. The table below shows the names and ages of students in a swimming club.
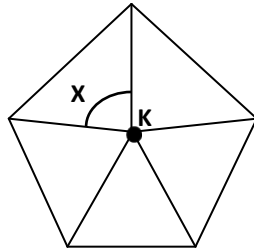
Swimming Club: Students' Ages

Name	Age
Miriama	7
Samu	8
Mohammed	9
Sylvia	11
Seth	11
Balbir	14

What is the range of the ages given in the table?
    A.   7
    B.   8
    C.   14

D. 21

21. A regular polygon is drawn below. **K** is the centre.

   (i) Name the polygon. **Pentagon**

   (ii) What is the sum of all the interior angles?

$$A=(n-2)180°$$
$$= (5-2)\ 180$$
$$= 3 \times 180$$
$$= \textbf{540°}$$

   (iii) Calculate the size of the angle marked **X**.

$$360/5 = \textbf{72°}$$

22. Josefa constructed a fish pond in their backyard.
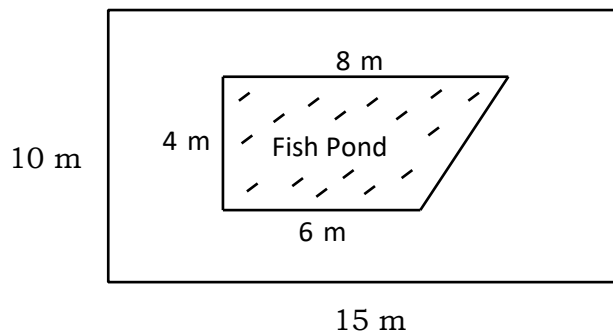
   (a) Calculate the area of the fish pond.

$$\textbf{A}_{\textbf{trapezium}} = {}^1/_2(a + b)\ h$$
$$= {}^1/_2\ (6+8)\ 4$$
$$= {}^1/_2 \times 14 \times 4$$
$$= 7 \times 4$$
$$= \textbf{28cm}^2$$

   (b) What would be the area of land left?

$$\textbf{A}_{\textbf{Land Left}} = \textbf{A}_{\textbf{Rectangle}} - \textbf{A}_{\textbf{Trapezium}}$$
$$= (b \times h) - 28$$
$$= (15 \times 10) - 28$$
$$= 150 - 28$$
$$= \textbf{122cm}^2$$

1076 NADI SANGAM SCHOOL
YEAR 8 HINDI WEEKLY HOME STUDY PACKAGE 13 SOLUTION

प्रश्न १   संस्कृति – (Culture)

अ. सही जवाब को चुनकर उसके बगल वाले अक्षर पर गोलाकार निशान बनाइए ।

१. दीपावली -------------- का त्योहार है ।

    क.   भाई-बहन   ख.   दीपों
    ग.   पित्तरो   घ.   रंगों

२. एक दूसरे के साथ अच्छा व्यवहार करने को -------------- कहते हैं ।

    क.   आज्ञा   ख.   नमस्ते
    ग.   शिष्टाचार   घ.   सम्मान

३. रावन ------------- का राजा था ।

    क.   लंका   ख.   लखनऊ
    ग.   फीजी   घ.   दिल्ली

४. भारतीय संस्कृति में ----------------- परम पिता परमात्मा का सब से अच्छा नाम है।

    क.   प्रकाश   ख.   दीपक
    ग.   ओउम्   घ.   तुलसी

५. शरीर मजबूत बनाने के लिए क्या करना जरूरी है ?

    क.   प्रेम   ख.   कसरत
    ग.   दया   घ.   पढ़ना लिखना

आ. सही वाक्य को √ करे और गलत को X |

१. रोज़ पूजा करें ।   √

२. भगवान ने सभी को एक समान बनाया है ।   √

३. ईश्वर एक है ।   √

४. माता- पिता की आदर नहीं करना चाहिए ।   X

५ दूसरों की बुराई करें ।   X

इ. चित्र के नाम दो ।

कलश	सूप	हसुआ	हारमोनियम	तबला

१.   –   हसुआ

_____

२.   –   सूप

_____

३.   –   तबला

_____

४.   –   कलश

_____

५.   –   हारमोनियम

_____

LETTER WRITING

Write your letter to your teacher and send it to your teacher in any forms of social media especially through viber so that your teacher knows which area needs improvement.

Note .

- Plan is a must
- Inside address and outside address
- Wordings of the letter should be formal
- Ending note should be formal and sound pleasant as well
- don't forget to sign and print your name
- Use block method type of writing

1. The only protection that can surely prevent teenage pregnancy and sexually transmitted diseases is

    A.   condom.
    B.   vaccines.
    C.   ***abstinence.***
    D.   antibiotics

2. Turtles are now an **endangered** species. This means that

    A.   they are extinct.
    B.   we should kill them.
    C.   they are found only in Fiji.
    D.   ***they are in danger of becoming extinct.***

3.   Which of the following statements is **not** true about sound?

    A.   Sound travels slower than light.
    B.   ***Sound can travel through a vacuum***.
    C.   Sound travels faster in solids than liquids.
    D.   Sound can travel through solids, liquids and gases.

4.   Echoes are heard when sound

    A.   is absorbed by a soft surface.
    B.   is absorbed by a hard surface.
    C.   ***bounces off a hard surface.***
    D.   bounces off a soft surface

5.   A student was given a mixture of sand grains, small stones, seeds and shells. He was asked to separate them. The **best** method to carry out the separation is by

    A.   filtration.
    B.   decantation.
    C.   evaporation.
    D.   ***using netting sieves.***

6. The process of distillation involves two processes. The two processes are

    A. condensation and filtration.
    B. condensation and spinning.
    C. ***evaporation and condensation***.
    D. decanting and condensation.

The model of water molecule is represented as shown in the diagram below. Use the diagram to answer **Question 7**.
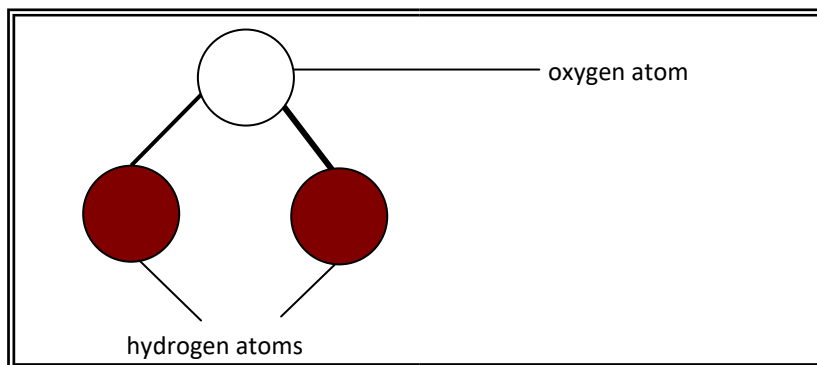
7. The total number of atoms in a water molecule is

    A. 6.   ***B. 3***.   C. 2.   D. 1.

8. Food in plants is transported from leaves to roots by the

    A. ***phloem.***
    B. flower.
    C. xylem.
    D. tube

9. Rocks which are formed when magma cools are called

    A. soapstone.
    B. ***igneous rocks.***
    C. sedimentary rocks.
    D. metamorphic rocks.

10. When a piece of wood is weighed in air and then in water, there is

    A. ***a loss in weight.***
    B. a gain in weight.
    C. an increase in size.
    D. no change in weigh

1. Sa dau tekivu babasika mai vakalalai na balolo e waitui e na vula ko _____.
A. Tiseba   ***B. Okotova***   C. Seviteba   D. Janueri

2. Na i cavuti vakavanua na Vuanirewa e dau vakayagataki ki na yasana vakaturaga ko _____.
 A. Lau   B. Cakaudrove   C. Rewa   D. Kadavu

3. Na qito vaka-Viti cava e kena i yaragi na ulutoa vaka i kaso ? _____
A. veilavo   B. veisilimi   C. veicibi   ***D. veitiqa***

4. Ni tini na i wau e na i wiliwili vaka-Viti, e tautauvata ni sa dua na
_____.
A. i ula   B. tuatua   ***C. bure***   D. i valu

5. Ko ira na _____ era kena dau e na ta waqa, sivisivi kei na tara vale.
 A. Mataisau   B. Bati   C. Gonedau   D. Liga ni Wau

6. Na 'kekewa' e dua na mataqali _____ ka dau kilai tani kina o Oneata kei Kabara.
 A. ika   B. uvi   C. dalo   ***D. vivili***

7. "Tali magimagi" e kena i balebale ni dua e _____.
A. dau tali ibe   ***B. dau vosa balavu***
C. dau tobe magimagi   D. talia vakadede

8. Na lawa lalai ka dau vakayagataki e na tataga e yacana na _____.
 A. i soroi   B. i tauga   **C. i taraki**   D. i rotaki

9. Na dalo se vudi ka dau tei wavoki se e na maliwa ni veibuke ni uvi e yacana na i _____.
 A. madrali   B. vakaoko   C. vakasoso   **D. yavoi**

10. Na cagi kaukauwa ka dau liwa e na vula ko Me, era vakatoka na qase me
_____.
 A. cagi ni doi   ***B. bogi walu***   C. cagi ni gasau   D. uca ni balolo

11. O ira mai _____ era kena dau tale ga e na cakacakataki ni masi.
A. Beqa   ***B. Vatulele***   C. Kadavu   D. Lomawai

12. Na kakana e dau caka me kedra na tara vale se caka were e yacana na
_____.
A. nabu   B. i tago   ***C. oco***   D. loru

13. E dau _____ na matani dalo e na doko.
A. lau   B. keli   C. suvisuvi   D. vaci .

14. E dau vakayagataki na _____ me duru ni vale vaka-Viti.
A. uto   B. bitu   **_C. vesi_**   D. gasau

15. Na manumanu cava e dau 'gau' ni tagi ?.
A. koli   **_B. vusi_**   C. ga   D. namu

16. E dau vakayagataki na _____ me i sevusevu vakaturaga.
A. tabua   B. masi   C. ibe   **_D. yaqona_**

17. Ni sa ciqomi oti na _____ sa qai dau vatonaki ka vakamaluataki.
A. kamunaga   B. i sevusevu   C. yaqona   D. kumi se gatu

18. E dau rabeta na medra yaqona na Turaga ko nona _____.
A. Bete   **_B. Matanivanua_**   C. Mataki   D. Sau Turaga

19. Na 'katikati' e dau vakaibalebaletaki vei ira na _____.
A. i sausauvou   B. ulumatua   **_C. gone lalai_**   D. yada

20. Ni keli oti na uvi e qai dau maroroi tu e na _____.
A. loma ni qara   B. dela ni draya   C. ruku ni veico   **D. kena lololo**

1076 NADI SANGAM SCHOOL
YEAR 8 WEEKLY HOME STUDY PACKAGE 13
HEALTHY LIVING, 2021
NON-COMMUNICABLE DISEASE (NCD)
Exercise - Solution

1. *With the help of a dictionary, define these terms*
   a. ***cancer*** – a disease caused by an uncontrolled division of abnormal cells in a part of the body.
   A malignant growth or tumor resulting from uncontrolled division of cells.

   b. ***diabetes*** – it is a chronic (long-lasting) health condition that affects how your body turns food into energy.
   a disease in which the body's ability to produce or respond to the hormone insulin is impaired, resulting in abnormal metabolism of carbon hydrates and elevated levels of glucose in the blood.

   c. ***chronic*** – (of an illness) persisting for a long time or constantly recurring.

   d. ***heart attack*** – this happens when a part of the heart music doesn't get enough blood.

   e. ***asthma*** – is a condition in which your airways narrow and swells and may produce extra mucus. This can make breathing difficult and trigger coughing, a whistling sound (wheezing) when you breathe out and shortness of breath.

2. *What are the 4 main types of NCDs?*
   Cardiovascular disease such as
   - Heart attacks
   - Stroke
   - Cancers
   - Chronic respiratory
   - Diabetes.

3. *Who are at risk of NCDs?*
   If you live an unhealthy lifestyle you are increasing your risk. We make unhealthy choices that are detrimental to our health.

4. *What should you do to protect yourself from NCDs?*
   Promote healthy diet, do a lot of physical activity, reduce alcohol use and tobacco, drink a lot of clean water.

5. *What are some causes of NCD?*
   - Tobacco use – smoking puts you at high risk
   - Physical inactive – lack of exercise
   - Unhealthy diet – high in salt, sugar, fat and processed food
   - Alcohol – drinking too much.