

1076 NADI SANGAM SCHOOL

YEAR 8

CONSOLIDATED

**WEEKLY HOME STUDY
PACKAGE:15 - SOLUTIONS**

18/10 TO 22/10

2021

1076 NADI SANGAM SCHOOL
YEAR 8 MATHEMATICS WEEKLY HOME STUDY PACKAGE: 15 – 2021
SOLUTION

SECTION A **MULTIPLE-CHOICE QUESTIONS**

Circle the letter of the best answer.

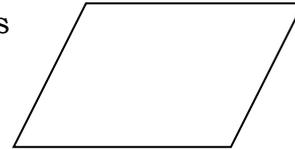
1. The name given to the quadrilateral on the right is

A. parallelogram

B. rectangle

C. trapezium

D. rhombus



2. 987 cm equals

A. 0.987 m

B. 98.7 m

C. 9.87 m

D. 987.0 m

3. g^5 equals

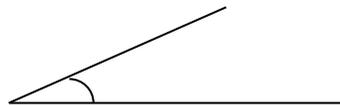
A. $5 \times g$

B. $g \times 5$

C. $g + g + g + g + g$

D. $g \times g \times g \times g \times g$

4. What is the name given to the angle shown below?



A. a reflex angle

B. a right angle

C. an obtuse angle

D. an acute angle

5. The sum of all the interior angles of a polygon with 7 sides is

A. 900°

B. 540°

C. 1440°

D. 1260°

6. 1000×0.001 equals

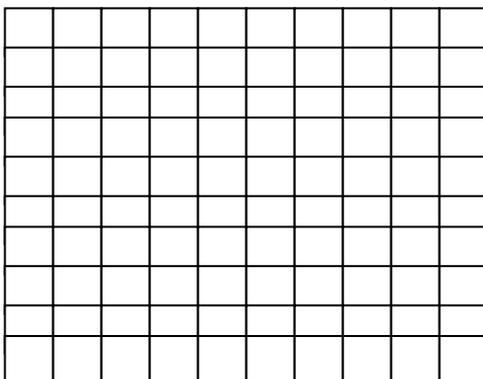
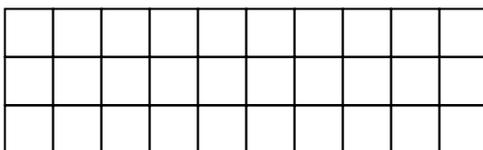
A. 0.1

B. 1

C. 0.0011

D. 1.01

7. The diagrams below show a set of Dienes Blocks made up of a flat, sticks and cubes.



What number is represented by the set of Dienes Blocks shown above if the value of a stick is 1?

A. 13.5

B. 1.35

C. 135.0

D. 0.135

8. The problem 9×206 was solved by Pita in this way:

$$\begin{aligned} 9 \times 206 &= (9 \times 200) + (9 \times 6) \\ &= 1800 + 54 \\ &= 1854 \end{aligned}$$

Which of the following rules did he use to solve the problem?

- A. Associative
B. Identity
C. Distributive
D. Commutative

9. Anamika bought 9.5m of material. She made her brother's shirt from 2m and her dress from 3.5m. The length of the material left was

- A. 3.5m B. 2.5m C. 4m D. 3.05m

10. A rectangular field is 100m x 9m. Which of the following equations would be used to find the perimeter of the field?

- A. 100×9
B. $2(100 + 9)$
C. $9(2 + 100)$
D. $2(2 + 100)$

SECTION B

Answer all questions. Show working clearly.

11. a) Work out and express your answer in the **simplest** form:

$$\begin{aligned} \frac{1}{4} + \frac{1}{3} &= \frac{1 \times 3}{12} + \frac{1 \times 4}{12} \\ &= \frac{3 + 4}{12} \\ &= \frac{7}{12} \end{aligned}$$

b) In the pair of coordinates (7, 3), the digit 3 tells you the **y-value**.

c) Speed = **Distance** divide by time.

d) Write five and two hundredth as a decimal.

$$\begin{aligned} 5 + \frac{2}{100} &= 5 + 0.02 \\ &= \mathbf{5.02} \end{aligned}$$

e) A **loss** is made when cost price is more than selling price.

f) 3 right angles = 3×90 degrees

$$= \mathbf{270 \text{ degrees}}$$

g) Solve:

$$\begin{aligned} 3x + 2 &= 14 \\ 3x &= 14 - 2 \\ x &= 12 \div 3 \\ \mathbf{x} &= \mathbf{4} \end{aligned}$$

h) Work out: $7h - h = \mathbf{6}$

i) 3 litres = $3 \times 1000 \text{ cm}^3$

$$= \mathbf{3000 \text{ cm}^3}$$

j) Volume of cone = $\frac{1}{3} \times \pi r^2 \times \text{height}$

12. A cup holds $\frac{1}{4}$ litres of water while a bucket holds 8 litres of water.



$\frac{1}{4}$ litres



8 litres

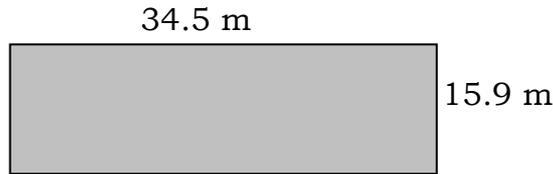
a) How many milliliters of water does the cup hold?

$$\frac{1}{4} \times 1000 = \mathbf{250 \text{ ml}}$$

- b) How many cups can be filled from the 8-litre bucket of water?

$$8 \div \frac{1}{4} = 8 \times 4 \\ = \mathbf{32 \text{ cups}}$$

13. A goat farmer decided to fence his rectangular farm with one roll of fencing wire.



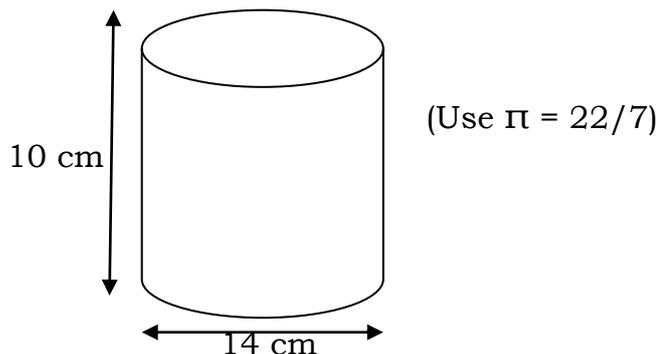
- a) What length of fencing wire will he need to buy to fence the farm completely?

$$P = 2(L + W) \\ = 2(34.5 + 15.9) \\ = 2 \times 50.4 \\ = \mathbf{100.8 \text{ m}}$$

- b) Fencing wire costs \$5.50 a metre. How much money would he spend?

$$5.50 \times 100.8 = \mathbf{\$554.40}$$

14. The diagram below shows a cylinder.



Calculate the volume of cylinder.

$$V = \pi r^2 h \\ = \frac{22}{7} \times 7^2 \times 10 \\ = 22 \times 7 \times 10 \\ = \mathbf{1540 \text{ cm}^3}$$

15. Namisha's bill for her shopping from the supermarket is shown below.

5 kg potatoes	-	\$5.25
3 pkts of noodles	-	\$1.20
3 tins of fish	-	\$3.45
2 pkts of milk	-	\$10.40
2 pkts of biscuits	-	\$2.50

- a) How much did she pay altogether?

$$5.25 + 1.20 + 3.45 + 10.40 + 2.50 = \mathbf{\$22.80}$$

- b) If she was given a 10% discount for paying cash, how much did she pay for the goods?

$$\frac{10}{100} \times 22.80 = 228 \div 100 \\ = \$2.28$$

$$22.80 - 2.28 = \mathbf{\$20.52}$$

16. (a) The input and output for a number machine are given in the table below.

i	1	2	3	4	5
r	2	5	10	y	z

- i) Write down the rule to show the relationship in the table.

$$\mathbf{r = i^2 + 1}$$

- ii) What are the missing numbers **y** and **z**?

$$\begin{aligned} \mathbf{y} &= 4^2 + 1 \\ &= 16 + 1 \\ &= \mathbf{17} \end{aligned}$$

$$\begin{aligned} \mathbf{z} &= 5^2 + 1 \\ &= 25 + 1 \\ &= \mathbf{26} \end{aligned}$$

- iii) What is the value of **r** when **i** = 11?

$$\begin{aligned} r &= 11^2 + 1 \\ &= 121 + 1 \\ &= \mathbf{122} \end{aligned}$$

अ. नीचे दिए गए वाक्यों को उचित क्रिया से पूरा कीजिए ।

अदाहरण डॉक्टर ने मरीज को दवा ----- । (पीना)

डॉक्टर ने मरीज को दवा पिलाई ।

१. माँ ने बच्चे को दूध **पिलाई** । (पीना)
२. हमारे पड़ोसी ने नया मकान **खरीदी** । (खरीदना)
३. मुख्य अध्यापक जी ने अतिथि को कुर्सी पर **बिठाई** । (बैठना)
४. हमने दर्जी से कपड़े **सीलाई** । (सीना)
५. मैंने नौकर के द्वारा दोस्त के घर पुस्तक **भेजाई** । (भेजना)
६. पिताजी ने मेरे द्वारा भाई साहब को **बुलाया** । (बुलाना)
७. राजा ने मंत्री से उस साधु को दान **दिलाई** । (देना)
८. इस वर्ष नगर पालिका ने वन महोत्सव के अवसर पर पेड़ **लगाई** । (लगाना)
९. जमीनदार ने नौकर के द्वारा किसानों को भोजन **खिलाई** । (खाना)
१०. मालिक ने नौकर को छुट्टी **दिलाई** । (देना)

आ.

**दोस्त हमें बहुत मदद पहुँचाते हैं। अच्छा दोस्त वही जो दुख में भी साथ दे।
दोस्ती में कभी उँच नीच नहीं होती है। हमें अपनी दोस्ती में कभी एक दूसरे
की बुराई नहीं करनी चाहिए। दोस्त कभी कभी हमारे परिवारों से भी ज्यादा
भरोसेमंद होते हैं। दोस्तों की नीँद्रा कभी नहीं करनी चाहिए।**

1076 NADI SANGAM SCHOOL
YEAR 8 SOCIAL SCIENCE
WEEKLY HOME STUDY PACKAGE 15-2021
SOLUTION

Study the picture below and answer the following questions.



1. State the problem shown in the picture.

The problem is coastal erosion, sea level rise, or destruction of trees but the main focus was on coastal erosion.

2. List two causes of this problem shown above.

The main causes could be global warming or climate change, wind, and rain and waves, or sea level rise. And also, large waves that entered this shore could have broken down and removed sand and rocks along the coastline.

Human activities such as logging of coastal trees and removing sand to make houses/buildings and footpaths could also be contributing to the causes.

3. State two ways of this problem can affect the people living in this area.

Water due to rise in sea level may seep into land and damaged their farms by removing nutrients from the soil for crops growth and can lead to health problems. People may lose their homes. And also, for people settling along the eroded coastline will have to relocate or move inland.

4. State two ways these problems could be reduced.

Planting mangroves to reduce wave energy and also their roots hold soil/sand together. Sand bagging acts as sea walls, having concrete barriers and the building of sea walls itself will help prevent the washing away of sand or soil on coasts.

CREATIVITY

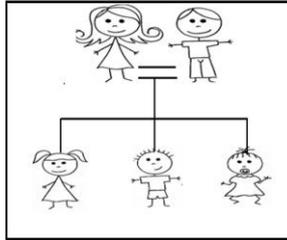
(Student's discretion)

Students answers in this question will vary.

Use the activity that you studied in your class in this case.

1076 NADI SANGAM SCHOOL
YEAR 8 HEALTHY LIVING
WEEKLY HOME STUDY PACKAGE 15: SOLUTION - 2021

Part One: Resource Interpretation



1. Why do we need good relationships in a family?

Relationships are a necessary part of our lives and it should bring happiness. A good family relationship is important for lots of other reasons too. They: make children feel secure and loved, which helps their brains develop. Give children the skills they need to build healthy relationships of their own.

2. Why is trust important in any relationship?

So that people believe each other and they may be at peace with one another. Trusting someone means that you think they are reliable; you have confidence in them and you feel safe with them physically and emotionally. Trust is something that two people in a relationship can build together when they decide to trust each other.

3. Name one characteristic that determines power in your relationship.

Power is determined by different characteristics such as age, gender, ethnicity, education, wealth, and is different in different situations.

4. What happens to people who bounce back from difficulties?

- For people, resilience means that whatever bad times (adversity) you go through you can always bounce back again and be yourself or even better.
- It is the ability to overcome challenges of all kinds like trauma, tragedy or personal crisis and bounce back stronger, wiser and more personally powerful.

Part 2: Glossary

Write down the meanings of the following words.

- 1- **abuse:** use something for a bad purpose or cruel and violent treatment of a person.
- 2- **additives:** chemicals added to food to improve taste and color.
- 3- **adolescent:** a process of development between childhood and adulthood
- 4- **adversity:** a state of misfortunate
- 5- **alveoli:** the tiny air sacks in the lungs

1076 NADI SANGAM SCHOOL
YEAR 8 – 2021
WEEKLY HOME STUDY PACKAGE 15
BASIC SCIENCE SOLUTION

Write True or False and state reasons to verify your answers.

1. The function of the large intestine is to store food

False – Stomach stores food. The large intestine absorbs water and salts from the material that has not been digested. It also gets rid of waste products left over.

2. Heat is gained when ice melts.

True – Heat is absorbed which melts the ice

3. Sugar is an example of a solution.

False - Sugar is only a solution if it dissolves in water. It is a compound.

4. A mixture of oil can be separated using a sieve.

False – it can be separated using a separating funnel because of different densities.

5. When an object falls its speed increases.

True – it speeds up due to the force of gravity

1076 NADI SANGAM SCHOOL
YEAR 8 – 2021
WEEKLY HOME STUDY PACKAGE 15
ENGLISH SOLUTION

QUESTION TAGS

1. They will not go for the dance competition, ***will they?***
2. A cat is jumping out of the window, ***isn't it?***
3. ***Mary did her Maths homework***, didn't she?
4. She wouldn't do that if she was advised, ***would she?***
5. The tourists are arriving soon, ***aren't they?***

DEVELOPING QUESTIONS.

Develop a question from the statement given.

1. The Minister of Education visited the school and gave a \$1000 cheque.
(What)
What did the Minister of Education give when she visited the school?
2. It is my car that parks under the mango tree. (Whose)
Whose car that parks under the mango tree?
3. In the 19th century people used oil lamps for light. (When)
When did the people use oil lamps for light?
4. When the candle light passed through the glass sphere, the light became much brighter.(How)
How did the light become much brighter?

1076 NADI SANGAM SCHOOL
YEAR 8 – 2021
WEEKLY HOME STUDY PACKAGE 15
NA VEIKA VAKA VITI SOLUTION

Buli Serekali

1. Bulia e dua na serekali me baleta na mate dewa e roboti vuravura tu e na gauna nikua.
2. Bulia talega na kena ulutaga ka tovole mo vola me 4 se 5 na kena parakaravu.
3. Ni oti na nomu bulia na serekali tovolea mo vola e tolu na taro e rawa ni navuci mai na serekali o sa bulia oqori.

Sau Ni Taro

Sa kerei mo vakauta na nomu I sau ni taro vua na nomu qasenivuli e na mona livaliva (Viber /email/messenger)

Au na qai raica kau na biuta cake cake na nomu serekali e na noda Moodle .

Vinaka .