

# Maharshi Patanjali Vidya Mandir

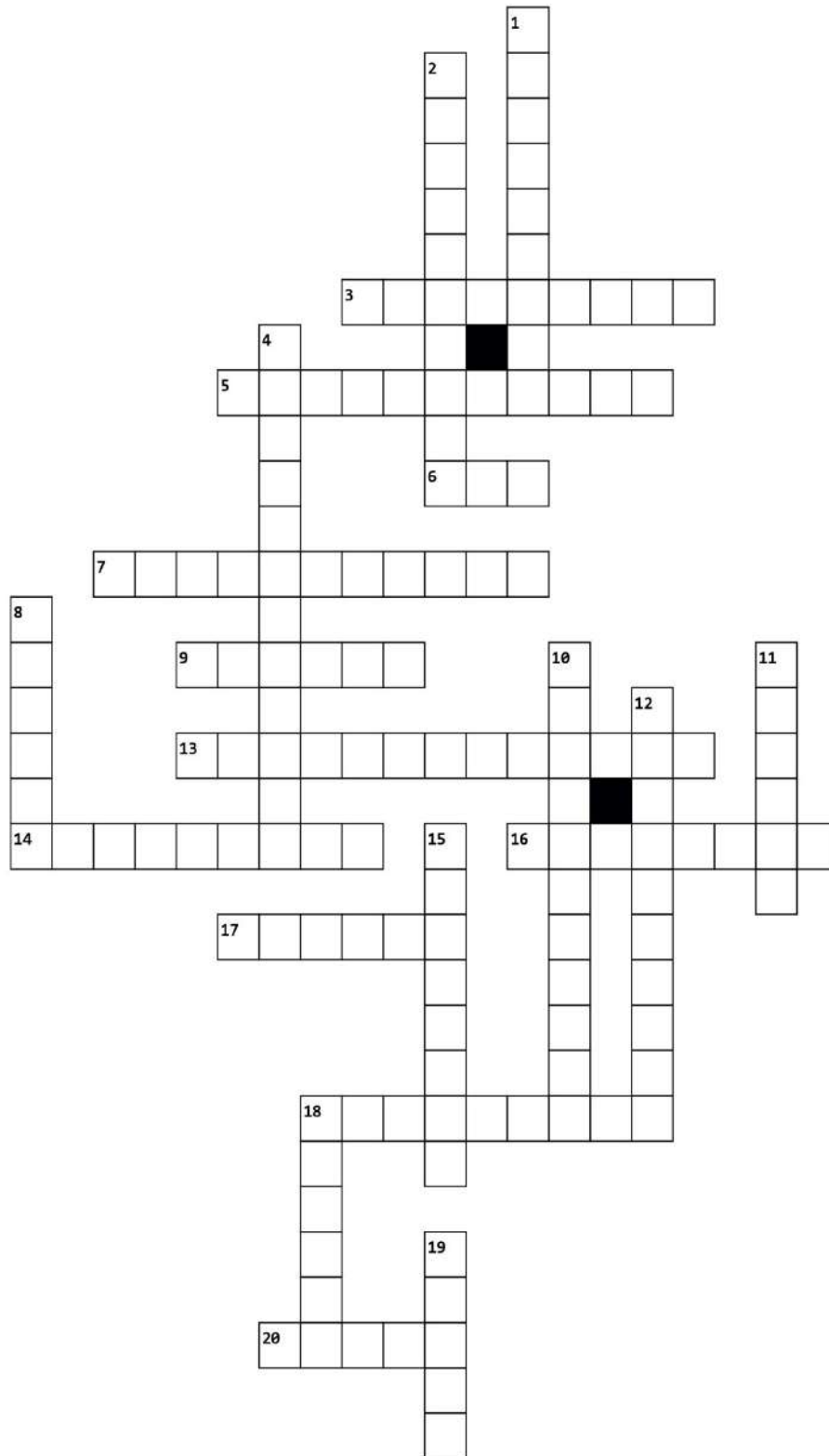
Class- VII



# Holiday Homework










## Biology/Chemistry

1. Plants prepare their food using a different mode of nutrition than us. What is it?
2. The tiny openings present on the leaf surface. What are they called? State their function.























### Down

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1. Alga is an/a \_\_\_\_\_.
  2. The nitrogen-fixing bacteria are found in which type of plants?
  4. The cells of green leaves and young stems of plants contain numerous green structures called \_\_\_\_\_.
  8. Fungi reproduce through \_\_\_\_\_.
  10. Farmers add this to improve the growth of the plant.
  11. The end product of photosynthesis which is given out.
  12. A stoma is surrounded by \_\_\_\_\_.
  15. Plants that borrow nutrients from another plant.
  18. The aqueous liquid found inside a chloroplast.
  19. The colour of partial parasites is \_\_\_\_\_.

### Across

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3. The only organism which can trap nitrogen.
  5. The green pigment needed for photosynthesis.
  6. The ultimate source of energy.
  7. Organisms that are found near decayed organic matter.
  9. Vessels which carry the food from the leaves to other parts of the plant.
  13. Plants that get nutrients by using indigenous methods.
  14. Lichen is an example of \_\_\_\_\_.
  16. Protein is a great source of \_\_\_\_\_.
  17. The common name for Cuscuta. Dodder
  18. A combination of components is called \_\_\_\_\_.
  20. Oxygen is essential for photosynthesis. True or false?

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3. Why is biological nitrogen fixation an environmentally friendly way of fertilizing the plants?
  4. Prepare list of five physical & five chemical changes along with its picture.
  5. Identify the following changes as physical or chemical.
    - a. Dissolving sugar in water.
    - b. Formation of rain from clouds.
    - c. Formation of acid rain
    - d. Combustion.
    - e. Hammering a nail flat.










**Note:-Homework to be done in fair copy.**

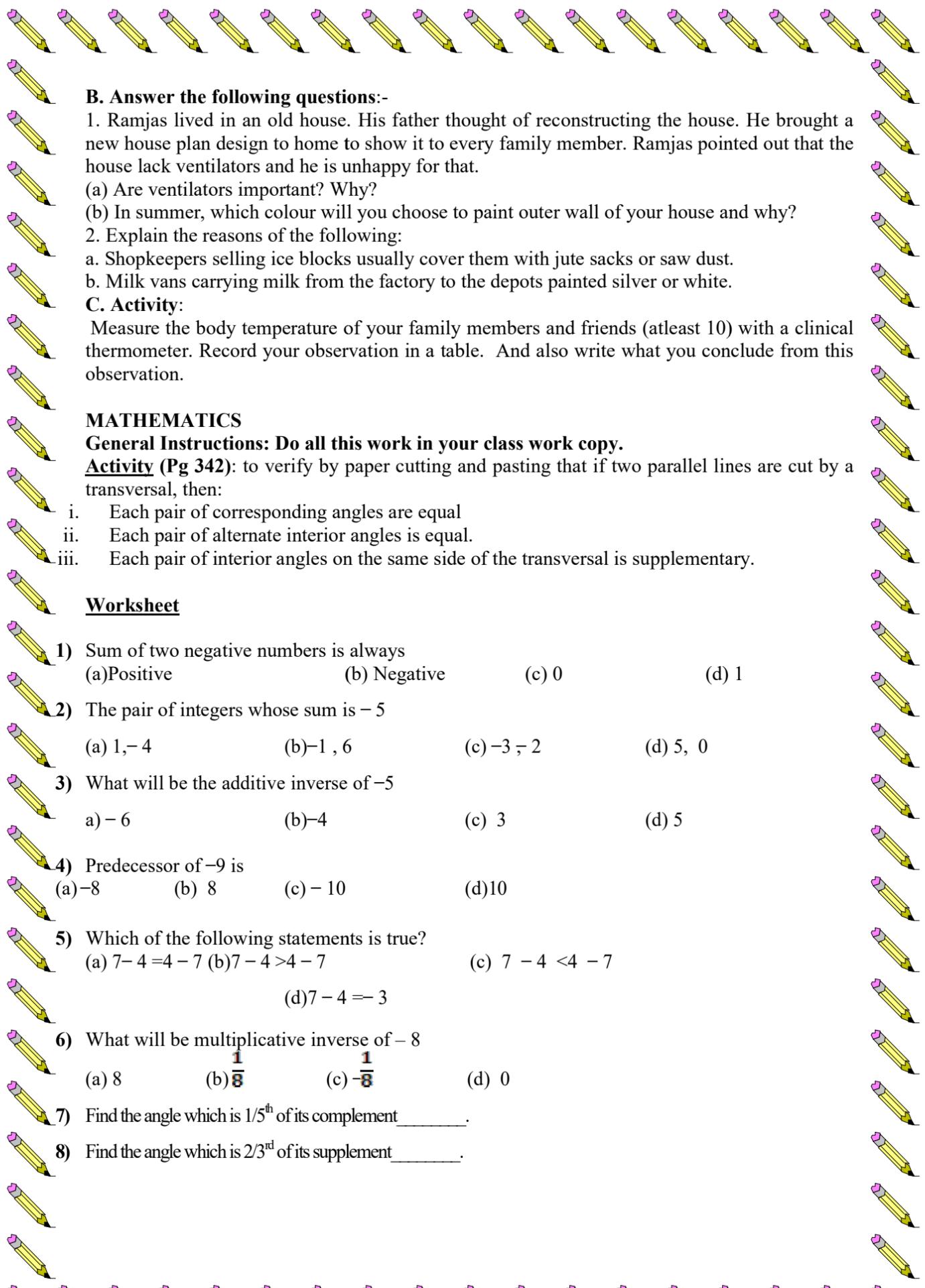


### Subject: Physics

General Instructions: Do all this work in your class work copy.

#### A. Choose the correct answer:

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1. A marble tile would feel cold as compared to a wooden tile on a winter morning, because the marble tile:
    - (a) Is a better conductor of heat than the wooden tile?
    - (b) Is polished while wooden tile is not polished.
    - (c) Reflects more heat than wooden tile
    - (d) Is a poor conductor of heat than the wooden tile?
  2. Paheli and Boojho measured their body temperature. Paheli found her's to be  $98.6^{\circ}\text{F}$  and Boojho recorded  $37^{\circ}\text{C}$ . Which of the following statement is true?
    - (a) Paheli has a higher body temperature than Boojho.
    - (b) Paheli has a lower body temperature than Boojho.
    - (c) Both have normal body temperature.
    - (d) Both are suffering from fever.



**B. Answer the following questions:-**

1. Ramjas lived in an old house. His father thought of reconstructing the house. He brought a new house plan design to home to show it to every family member. Ramjas pointed out that the house lack ventilators and he is unhappy for that.

(a) Are ventilators important? Why?

(b) In summer, which colour will you choose to paint outer wall of your house and why?

2. Explain the reasons of the following:

a. Shopkeepers selling ice blocks usually cover them with jute sacks or saw dust.

b. Milk vans carrying milk from the factory to the depots painted silver or white.

**C. Activity:**

Measure the body temperature of your family members and friends (atleast 10) with a clinical thermometer. Record your observation in a table. And also write what you conclude from this observation.

**MATHEMATICS**

**General Instructions: Do all this work in your class work copy.**

**Activity (Pg 342):** to verify by paper cutting and pasting that if two parallel lines are cut by a transversal, then:

- i. Each pair of corresponding angles are equal
- ii. Each pair of alternate interior angles is equal.
- iii. Each pair of interior angles on the same side of the transversal is supplementary.

**Worksheet**

1) Sum of two negative numbers is always

- (a) Positive (b) Negative (c) 0 (d) 1

2) The pair of integers whose sum is  $-5$

- (a)  $1, -4$  (b)  $-1, 6$  (c)  $-3, -2$  (d)  $5, 0$

3) What will be the additive inverse of  $-5$

- a)  $-6$  (b)  $-4$  (c)  $3$  (d)  $5$

4) Predecessor of  $-9$  is

- (a)  $-8$  (b)  $8$  (c)  $-10$  (d)  $10$

5) Which of the following statements is true?

- (a)  $7 - 4 = 4 - 7$  (b)  $7 - 4 > 4 - 7$  (c)  $7 - 4 < 4 - 7$

(d)  $7 - 4 = -3$

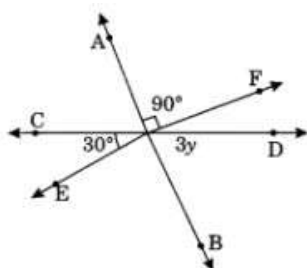
6) What will be multiplicative inverse of  $-8$

- (a)  $8$  (b)  $\frac{1}{8}$  (c)  $-\frac{1}{8}$  (d)  $0$

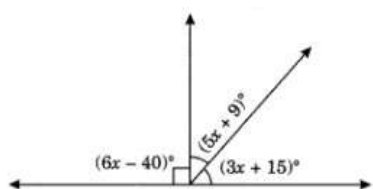
7) Find the angle which is  $\frac{1}{5}$ <sup>th</sup> of its complement \_\_\_\_\_.

8) Find the angle which is  $\frac{2}{3}$ <sup>rd</sup> of its supplement \_\_\_\_\_.

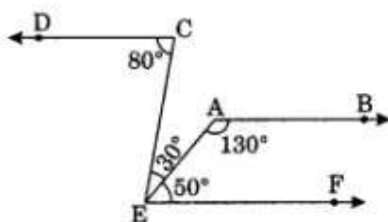
9) Find the value of  $y$  in the given figure:



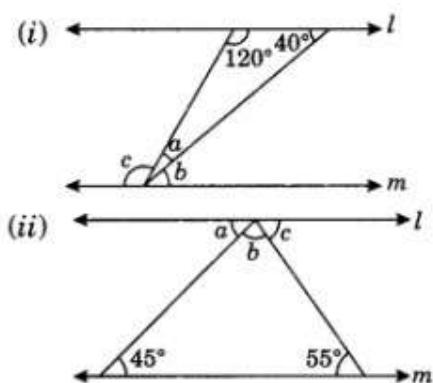
10) Find the value of  $x$



11) In the figure prove that  $AB \parallel CD$



12) In the given figures  $l \parallel m$ . Find the values of  $a$ ,  $b$  and  $c$ .



13) Which one of the following is greater:

- a) 5.000    b) 0.500    c) 0.005    d) 0.050

14) 5 cm in Km can be written as:

- (a) 0.0005    (b) 0.00005    (c) 0.0005    (d) 0.05

15) Arrange the following in ascending order:

$$(i) \frac{2}{7}, \frac{3}{5}, \frac{5}{6}$$

$$(ii) \frac{1}{5}, \frac{3}{7}, \frac{7}{10}, \frac{1}{6}$$

16) Do the Mental Maths of Integers & lines and Angles.

### S. ST

Read Ls. 1 of History, Civics and Geography and learn their question /answers.

### Geography Activity

Prepare a model of an Active Volcano to show how a Volcano erupts.

### **SANSKRIT**

- 1- कक्षा में पढ़ाए गये पाठों को याद कीजिये।
- 2- वन्दना को सचित्र उत्तरपुस्तिका में लिखिए एवं याद कीजिए।
- 3- शब्द रूप नदी तथा धातु रूप कृके चारों लकार उत्तर पुस्तिका में लिखिए एवं याद कीजिए।
- 4- कवेः वृत्तम्पाठ की कहानी को हिन्दी में लिखिए।

### **हिंदी**

#### ग्रीष्मावकाश गृहकार्य

- 1- मधुप हिंदी पाठमाला से 1, 2, 3 पाठों की पुनरावृत्ति कीजिए।
- 2- हिंदी व्याकरण पाठ 1 और 2 पुनरावृत्ति कीजिए।
- 3- 5 औषधीय वाले वृक्ष या पौधों के बारे में संक्षिप्त परिचय देते हुए उनके नाम सहित चित्र फाइल पेज पर चित्र चाहिए।

### **COMPUTER**

1. Answer the following questions.
  - i) What is storage device in computer? Mention its types also.
  - ii) Define the term software? Mention its types also.
  - iii) What is utility software?
  - iv) What is secondary memory? Write any three examples of secondary memory.
  - v) What is the difference between Multi-user Operating System and Multitasking Operating System?
2. Write the answer in short
  - i) Name any two utility software?
  - ii) The physical parts of a computer that can be seen and touched are known as?
  - iii) Define Primary memory?
3. Write 'T' for true and 'F' for false statements.
  - i) ROM is a primary memory.
  - ii) Operating system is an example of system software.
  - iii) Word Processing Software is special purpose software.



## ENGLISH

Coursebook–

Read the story 'The Model Millionaire ' and prepare and write the

- Write and Learn activity of writing a play and role play as mentioned on Pg. 24
- Speak and Learn activity of preparing a speech as mentioned on Pg. 25

Reader –

'Himsuka': Write your personal views on the question – If you were a caged Bird, what would your message to humans be?'

Grammar –

Prepare the vocabulary section of Chapters 23, 24, 25 and 26 from the textbook

Note – **The Holiday Homework written work needs to be done in the Literature notebook**

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