

PM SHRI KENDRIYA VIDYALAYA PAINAVU  
HOLIDAY HOMEWORK( SUMMER VACATION)  
MATHEMATICS  
CLASS: IX

1. Equality explorer - [click here to play the game](#)  
( complete all four levels and take a screenshot of the final score for each level)
2. Area using polynomials - [click here to play the game](#)  
( complete all six levels and take a screenshot of the final score for each level)
3. Draw square root spiral from  $\sqrt{2}$  upto  $\sqrt{15}$
4. FILM: Watch the movie QUEEN OF KATWE and give a brief description of how the struggles of Phiona inspired you.

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CLASS: VII

1.

Write the predecessor and successor of the following numbers.

1. 5664            5666

2. \_\_\_\_\_  \_\_\_\_\_

3. \_\_\_\_\_  \_\_\_\_\_

4. \_\_\_\_\_  \_\_\_\_\_

5. \_\_\_\_\_  \_\_\_\_\_

6. \_\_\_\_\_  \_\_\_\_\_

2. Draw the place value table for the following numbers :

- i) 63,71,976
- ii) 5,47,651
- iii) 51,95,310
- iv) 41,93,501
- v) 72,14,345

3.

1. Insert commas according to the international place value system and write their names in words.

a. 8678561 \_\_\_\_\_

b. 31012568 \_\_\_\_\_

c. 1256432 \_\_\_\_\_

d. 324651 \_\_\_\_\_

2. Insert commas according to the Indian place value system and write their names in words.

a. 48366 \_\_\_\_\_

b. 837132 \_\_\_\_\_

c. 3653154 \_\_\_\_\_

d. 61563956 \_\_\_\_\_

4. Write the place value of the highlighted number:

i) 812**3**660

ii) 32**1**2730

iii) 9623**4**05

5. Estimate the following numbers to the nearest given place value:

i) 542381 -----> nearest tens place

ii) 3142396 -----> nearest hundreds place

iii) 8721786 -----> nearest thousands place

6. FILM: Watch the movie THE BOY WHO HARNESSSED THE WIND.

write a brief description of the struggles and achievements of Maxwell and how you can correlate with him.

7. Complete the MDP for term1.

PM SHRI KENDRIYA VIDYALAYA PAINAVU  
HOLIDAY HOMEWORK( WINTER VACATION)  
MATHEMATICS  
CLASS: VIII

1. Complete learner's diary upto to April 06.
2. Complete MDP for term 1.
3. Watch the movie "THE POLAR EXPRESS" and write about the experiences of the hero boy.
4. The number pyramid - [click here to play the game](#) ( follow the instructions given in the game to complete the pyramid). Paste the screenshot of your final scoresheet.
5. The police quad - [click here to play the game](#) ( follow the clues to identify the culprit . You can skip the story but don't forget to follow the clues)

\*\*\* HAPPY HOLIDAYS \*\*\*

HOLIDAY HOMEWORK( SUMMER VACATION)  
MATHEMATICS  
CLASS: X

1. Equality explorer - [click here to play the game](#)  
( complete all four levels and take a screenshot of the final score for each level)
2. Show that  $3\sqrt{6}$  is an irrational number.
3. Examine whether the following is rational or irrational number:
  - i)  $(\sqrt{2} + 2)^2$
  - ii)  $(\sqrt{2} - 2)(\sqrt{2} + 2)$
  - iii)  $(\sqrt{2} + \sqrt{3})^2$
4. Find the largest number which divides 70 and 125 leaving remainder 5 and 8 respectively.
5. Three bells toll at intervals of 9, 12, 15 minutes respectively. If they start tolling together, after what time will they next toll together?
6. FILM: Watch the movie HIDDEN FIGURES and give a brief description of how the oppression of coloured women and the subsequent recognition of their beautiful minds have motivated you to give your best under any circumstances.