



D.A.V. PUBLIC SCHOOL, NEW PANVEL
HOLIDAY ASSIGNMENT
GRADE VIII

SUBJECT	HOLIDAY HOMEWORK
ENGLISH	Gather information about SDG-17, i.e. Partnerships For The Goals'. Taking reference from your literature text 'The Undeserved Reward' and together with the information gathered, write a Speech in about 100-120 on the topic 'Whatever Affects One Directly Affects all Indirectly' in an A4 size coloured paper.
HINDI	खेल विभाग के लिए आवश्यक खेल सामग्री की माँग करते हुए प्रधानाचार्य को एक आवेदन पत्र लिखिए।
MARATHI	आकाश/आशा पाटील, गंगा निवास, भुकापूर पनवेल येथून दिवाळीसाठी आवश्यक अक्षणा-या अजायटीच्या सामानाची मागणी करणारे पत्र दिपक डेकोरेटर्स, गाळा क्रमांक १०, मिर्ची गल्ली, पनवेल यांना लिहितो/लिहिते.
SANSKRIT	Complete the textbook page no.136 to 156 1 Unseen passage 2 Letter writing 3 Picture work
SCIENCE	Make a doll using waste plastic materials (bottle, caps, straws, etc) and adorn it using different types of synthetic fibers/fabrics. [click its photograph and place it in the portfolio]
SOCIAL SCIENCE	Chapter4- Minerals and Energy Resources PROJECT- CONSERVATION OF ENERGY Activity SUGGESTED ON MINERALS- Metallic and Non-metallic minerals 1.Explore the various items made of minerals and their alloys in your home and surroundings. 2.Click photos of each item 3.Classify them into Metallic and Non-metallic minerals. Prepare a brochure based on the identification you made (at least five Metallic and Non-metallic minerals. Attach this brochure as record in your notebook OR CONSERVATION OF ENERGY 1.Collect the electricity bill of your house. 2.Compare the consumption of electricity in different seasons 3.Convert the data into a bar graph, compare it, find out causes of more energy consumption in particular month/season 4. Find your solution to reduce the consumption rate, note down which steps are taken by you at house for reduced energy consumption, analyse its impact on the electricity bill, 5. Give more suggestions to reduce energy consumption and try imbibe habits of saving. Present your work in best of your creativity in your notebook
MATHEMATICS	Worksheet Topic- POLYNOMIAL

Read the following passage carefully and answer the questions that follow:

Technology has become an inseparable part of our daily lives. From waking up to the sound of an alarm clock to studying through online classes, it influences almost everything we do. While it has made life faster and more convenient, it has also brought new challenges. Many young people today spend more time on screens than with family or friends. This has affected their social skills and health. On the other hand, technology has opened doors to new learning opportunities, easy communication, and instant access to information. The key, therefore, lies in using technology wisely. Instead of avoiding it, we must learn to balance our screen time and real-life experiences. Technology is a tool — how we use it decides whether it becomes a blessing or a burden.

In recent years, the rise of artificial intelligence and automation has also changed the nature of jobs and education. Machines can now perform many tasks faster and more accurately than humans. While this saves time and effort, it also means that people must constantly update their skills to stay relevant. Schools and colleges are now focusing more on creativity, problem-solving, and digital literacy — skills that machines cannot easily replace. Hence, it is essential for students to use technology not only for entertainment but also as a means to learn and grow for the future.

i) What is the main idea of the passage?

- a) Technology should be avoided completely
- b) Technology has both advantages and disadvantages
- c) Technology is harmful to students only
- d) Technology has no role in our lives

ii) How has technology changed the way people live and learn?

iii) What are the negative effects of spending too much time on screens?

iv) According to the second paragraph, why must people update their skills?

v) The passage says that technology is a _____.



D.A.V. PUBLIC SCHOOL, NEW PANVEL
HOMEWORK WORKSHEET
POLYNOMIAL
2025-2026
STD: VIII
Subject: Mathematics

	Solve the following
1.	Divide: (a) $24a^2bc^3 \div -6abc^2$ (b) $-56xyz^3 \div -6x^3y^4z$ (c) $21m^2 \div 7m$ (d) $40a^3 \div (-10a)$ (e) $(-48p^4) \div (-9p^2)$ (f) $40m^5 \div 30m^3$ (g) $(5x^3 - 3x^2) \div x^2$ (h) $(8p^3 - 4p^2) \div 2p^2$ (i) $(2y^3 + 4y^2 + 3) \div -2y^2$ (j) $(21x^4 - 14x^2 + 7x) \div 7x^3$ (k) $(6x^5 - 4x + 8x^3 + 2x^2) \div 2x^2$ (l) $(25m^4 - 15m^3 + 10m + 8) \div 5m$ (m) $4x^5 - 14x^4 + 6x^3 - 2x^2$ by $2x^2$ (n) $20x^3y + 10xy^2 - 15x^2y$ by $5xy$
2.	Find the quotient and remainder when $(x^5 + 3x^4 - 5x^3 + 14x^2 + 36x - 13)$ is divided by $(x^2 + 4x - 2)$. And Verify dividend = divisor x quotient + Remainder
3.	Divide: (1) $(y^2 + 10y + 24) \div (y + 4)$ (2) $(p^2 + 7p - 5) \div (p + 3)$ (3) $(3x + 2x^2 + 4x^3) \div (x - 4)$ (4) $(2m^3 + m^2 + m + 9) \div (2m - 1)$ (5) $(3x - 3x^2 - 12 + x^4 + x^3) \div (2 + x^2)$ (6*) $(a^4 - a^3 + a^2 - a + 1) \div (a^3 - 2)$ (7) $(4x^4 - 5x^3 - 7x + 1) \div (4x - 1)$
4.	Which of the following is a binomial? a. $8(a) + a$ b. $7a^2 + 8b + 9c$ c. $3a \times 4b \times 2c$ d. $11a^2 + 11b^2$
5.	Assertion : The degree of the polynomial $(x^2 - 2)(x - 3)(x + 4)$ is 3. Reason : A polynomial of degree 3 is called a cubic polynomial.
6.	Assertion : The expression $3x^4 - 4x^{3/2} + x^2 = 2$ is not a polynomial because the term $-4x^{3/2}$ contains a rational power of x. Reason : The highest exponent in various terms of an algebraic expression in one variable is called its degree.

7.	Assertion : -7 is a constant polynomial. Reason : Degree of a constant polynomial is zero.
8.	Assertion : If $(x + 1)$ is a factor of $f(x) = x^2 + ax + 2$ then $a = -3$. Reason : If $(x - a)$ is a factor of $p(x)$, if $p(a) = 0$.
9.	Factorise the expression and divide them as directed (a) $y^2 + 7y + 10$ by $(y + 5)$ (b) $m^2 - 14m - 32$ by $(m + 2)$ (c) $(x^2 - 22x + 117) \div (x - 13)$ (d) $y^2 + 7y - 18$ by $(y + 9)$ (e) $x^2 - 5x + 6$ by $(x - 2)$ (f) $x^2 + 7x + 10$ by $(x + 5)$ (g) $x^2 + 9x + 20$ by $(x + 4)$
10	Write the polynomial in standard form with the degree (a) $-5x^3 + 2x^2 + 6x - 4$ (b) $6 + x^3 - 2x^2$ (c) $-x^6 + 9x^4 - 2x + 3$ (d) $7 - x^4 + 3x^2$ (e) $(x + 2)(x^2 - 3)$ (f) $(x^3 - 5x + 4)(x^2 - 1)$
11.	Determine whether $g(x)$ is a factor of $p(x)$ in each of the following cases: (i) $p(x) = 2x^3 + x^2 - 2x - 1$, $g(x) = x + 1$ (ii) $p(x) = x^3 + 3x^2 + 3x + 1$, $g(x) = x + 2$ (iii) $p(x) = x^3 - 4x^2 + x + 6$, $g(x) = x - 3$ (iv) $p(x) = x^3 - 5x^2 + 4x - 3$, $g(x) = x - 2$
12.	Case Study Questions On one day, Principal of a particular school visited the classroom. Class teacher was teaching the concept of polynomial to students. He was very much impressed by her way of teaching. To check, whether the students also understand the concept taught by her or not, he asked various questions to students. Some of them are given below. Answer them.  (1) Which one of the following is not a polynomial? (a) $4x^2 + 2x - 1$ (b) $y + (3/y)$ (c) $x^3 - 1$ (d) $y^2 + 5y + 1$ (2) The polynomial of the type $ax^2 + bx + c$, $a = 0$ is called a _____ polynomial (3) The value of k, if $(x - 1)$ is a factor of $4x^3 + 3x^2 - 4x + k$, is (4) If $x + 2$ is the factor of $x^3 - 2ax^2 + 16$, then value of a is

STATISTICS AND PROBABILITY

1. A bag contains 3 red balls, 5 black balls, and 4 white balls. A ball is drawn at random. What is the probability that the ball drawn is white?
a) $\frac{1}{3}$ c) $\frac{5}{12}$
b) $\frac{1}{4}$ d) $\frac{1}{2}$
2. If a single die is rolled, what is the probability of getting a number greater than 5?
a) $\frac{1}{6}$ c) $\frac{1}{2}$
b) $\frac{1}{3}$ d) 1
3. A card is drawn from a set of 52 cards. Find the probability of getting a queen card.
a) $\frac{1}{26}$ c) $\frac{4}{53}$
b) $\frac{1}{13}$ d) $\frac{4}{13}$
4. A card is selected at random from a well-shuffled deck of 52 playing cards. The probability of its being a face card is:
a. $\frac{3}{13}$ c. $\frac{6}{13}$
b. $\frac{4}{13}$ d. $\frac{9}{13}$

5. Number of workshops organised by a school in different areas during the last five years are as follows:

Draw a histogram representing the given data data:

Years	No. of Workshops
1995-1996	25
1996-1997	30
1997-1998	42
1998-1999	50
1999-2000	65

6. In a hypothetical sample of 20 people, the amounts of money with them were found to be as follows:
114, 108, 100, 98, 101, 109, 117, 119, 126, 131, 136, 143, 156, 168, 182, 195, 207, 219, 235, 118.
Draw the histogram of the frequency distribution (taking one of the class intervals as 50-100).
7. Construct a histogram for the following data:

School fee (in ₹)	30-60	60-90	90-120	120-150	150-180	180-210	210-240
No. of Schools	5	12	14	18	10	9	4

8. The number of hours spent by school boy on different activities in a working day, is given below. Present the information in the form of pie chart.

Activities	Sleep	Home	Play	others	School
No. of Hours	8	4	2	3	7

9. Employees of a company have been categorised according to their religions as given below:

Religions	Hindu	Muslim	Sikh	Christian	Others
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No. of workers	420	300	225	105	30
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