

Chaitanya Central School
Yenugonda, Mahabubnagar
Mathematics Assignment - 2024-25

Class: VIII

I.Solve the following:

1. Add the following integers.
(a) $(-6) + 9$ (b) $(-15) + (-13)$ (c) $(-6) + (-8) + 3$ (d) $(15) + 3 + (-12)$
2. Solve the following.
(a) Subtract -6 from 5 (b) subtract 10 from -14 (c) Subtract -13 from -19 (d) Subtract 17 from -7
3. Multiply the following.
(a) $18 \times (-16)$ (b) $(-16) \times (-9)$ (c) $3 \times (-6) \times (-11)$ (d) $9 \times (-6) \times 0 \times (-12)$
4. Divide the following:
(a) $(-99) \div 11$ (b) $84 \div (-4)$ (c) $(-75) \div (-5)$ (d) $(-442) \div 17$
5. Find the value of the following.
(a) $(-10)^5$
(b) $(-1) \times (-1) \times (-1) \times \dots \times (-1)$ (100 times)
(c) $(-4)^3$
(d) $(-12345)^0$
6. Find the LCM of the following:
(a) 3,5,6 (b) 4,6,32 (c) 13, 52, 64, 91 (d) 296 , 300, 264
7. (a) Add $\frac{2}{5}$, $\frac{1}{2}$ and $\frac{3}{4}$; (b) Add 2 and $\frac{1}{3}$
8. (a) Subtract $\frac{7}{8}$ from 9 ; (b) Subtract 2 from $3\frac{2}{3}$.
9. Multiply the following
(a) $\frac{4}{5} \times \frac{7}{8}$ (b) $\frac{2}{7} \times \frac{5}{8} \times \frac{3}{10}$ (c) $\frac{1}{8} \times \frac{2}{1} \times \frac{5}{9} \times \frac{3}{10}$
10. Which is greater ?
 $\frac{1}{2}$ of $\frac{6}{7}$ (or) $\frac{2}{3}$ of $\frac{3}{7}$
11. Find the mode and median of the data 18, 17, 20, 13, 16,12, 14, 19,12, 14, 13,14
12. 200 students of 6th and 7th classes were asked to name their favourite colour so as to decide upon what should be the colour of their school building. The results are shown in the following table. Represent the given data on a bar graph.

Favourite colour	Red	Green	Blue	Yellow	Orange
Number of students	43	19	55	49	34

Answer the following questions.

- (a) Which is the most preferred colour and which is the least preferred?
- (b) Choose an appropriate scale for the given data?

13. Solve the following equations by trial and error method.

(a) $5p + 12 = 27$ (b) $8m - 4 = 12$

14. Set up equations and solve them to find the unknown numbers.

(a) Add 5 to six times a number, you get 35

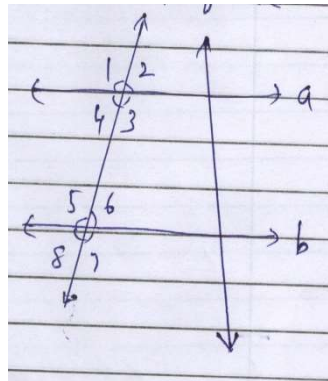
(b) When I subtracted 3 from 11 times of a number the result was 30.

15. State the property that is used in each of the following statements.

(a) If $a \parallel b$, then $\angle 1 = \angle 5$.

(b) If $\angle 4 = \angle 6$, then $a \parallel b$

(c) If $\angle 4 + \angle 5 = 180^\circ$, then $a \parallel b$



16. An exterior angle of a triangle is of measure 70° and one of its interior opposite angles is of measure 25° . Find the measure of the other interior opposite angle.

17. Which of the following can be the sides of a right triangle?

(a) 6cm, 8cm, 10cm (b) 2.5cm, 6.5cm, 6cm

18. Convert the following to percentages.

(a) $\frac{12}{16}$ (b) $\frac{49}{50}$ (c) $\frac{2}{2}$ (d) 0.05

19. Write all the formulae related to exponents and powers.

20. (i) Find the circumference of the circles with the following radius (Take $\pi = \frac{22}{7}$)

(a) 21cm (b) 35cm (c) 2.8cm

(ii) Find the area of the circles, given that

(a) Radius = 28cm (b) diameter = 49cm.

:: THE END ::

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PHYSICAL SCIENCE

- Write names and symbols of first 30 elements from periodic table and learn them.
- Write the chemical name and chemical formula for the following.
1. Common salt 2. Lime water 3. Quick lime 4. Baking soda 5. Washing soda 6. Caustic soda
7. blue vitriol 8. Green vitriol 9. Water 10. White vitriol 11. Milk of magnesia 12. Sulphuric acid
- Convert the following:
 - 1N = _____ Dynes
 - 1Dyne = _____ N
 - 1 N/m² = _____ Dyne/cm²
 - 1 Dyne/cm² = _____ N/m²
 - 1 Km/hr = _____ m/sec
 - 1m/sec = _____ km/hr
 - 1Kg/m³ = _____ gr/cm³
 - 1Gr/cm³ = _____ Kg/m³
 - 1 m² = _____ cm²
 - 1 cm² = _____ m²
 - 1 m³ = _____ cm³
 - 1 cm³ = _____ m³
- Do the following activity.
Visit 5 families and gather the following information
 - Head of the family.
 - Number of persons in that family.
 - Consumption of L.P.G. per month.
 - Number of vehicles in the family.
 - Consumption of fuel for each vehicle per month.
 - Expenditure on L.P.G. per month.
 - Expenditure on vehicle fuel per month
 - Name of fuel used for the vehicles.
- Write some methods to control the fire at the time of fire accidents.

BIOLOGICAL SCIENCE

I. Answer the following questions in one word.

1. It is a simple tool used for removing weeds and for loosening the soil.
2. These are made in factories.
3. They are relatively less rich in plant nutrients.
4. They are unwanted plants in crop field area.
5. The separation of grain and chaff is the method called .
6. They are living organisms which cannot be seen through our naked eye? What are those?
7. Disease – causing micro-organisms are called as.

II. Draw the diagrams for below and label them.

- (a) Nitrogen cycle (b) Paramecium (c) Viruses

III. Fill in the blanks.

1. In agriculture they are used to increase _____ by fixing nitrogen.
2. _____ and _____ are also helpful for fermentation.
3. Cholera is caused by _____.
4. The process of conversion of sugar into alcohol is known as _____.
5. The first step before growing crops is _____ of the soil.
6. _____ grains have more moisture.
7. Micro organisms can be seen with the help of a _____.
8. Mushroom belongs to _____.
9. The pathogens are _____ causing organisms.
10. Malaria is caused by _____.

:: THE END::

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Rewrite the following sentences as directed:

1. She is cleverer than you. (change the adjective to the positive degree)
2. The sun is more bright than the other stars we can see. (write the sentence correctly)
3. The price of Alphonso mangoes ___very high last month. (use was or were)
4. Several of the king's men ___ trapped by his enemies. (use was or were)

Write suitable questions fro the following answers.

5. _____
My father is a mechanical engineer.

6. _____
Mount Everest is the highest mountain in the world.

Insert a an or the wherever needed in the following sentences.

7. We see moon at night.
8. This is peacock . Peacock has colourful feathers.
9. There is orchard nearby. Orchard has many apple trees.

Form abstract nouns from the following adjectives.

10. anxious
11. confident
12. chaotic

Rewrite the following sentences in the passive voice.

13. They have pulled down the old building .
14. We expect to get a good result.
15. The police has arrested all the thieves.

1. Book Report:

Guidelines:

- Select a story Book
- Read the book for a week or so.
- the book report should contain the following details:
Fiction
- What the book is about (theme)
- important characters
- a brief outline of the (story) plot.
- reasons for enjoying /not enjoying .
- whether you would recommend it to others to read

2. Non-fiction

- What the book is about /subject/topic
- important characters or important areas covered.
- a fact file of important information
- whether you found it useful and why.
- Whether you would recommend it to other to read

Important People

3. Project Guidelines:

Each one should take newspaper or magazine .

Read through them and search the information and find out about persons who have been awarded medals, titles prizes recently.

Cut out articles and news items about the people classify the articles under different headings like 'Writers', 'Politicians', 'Academicians', 'Scientists', 'Actors', etc.

Prepare an album of these articles.

Frame two or three questions on each person.

Handwriting

Take a separate notebook and write few lines everyday.

Writing Section:

1. You are Aman/Akriti a student of class VI of Chaitanya Central School, Mahabubnagar. You found somebody's watch in the school premise. Write down a notice for it in 50 words.
2. Write a story in about 150 words on the given outline.
The sun and the wind had a quarrel ----- who is stronger? ----- they tested their strength on a passer by ---- the wind blew the sun grew hotter ----- took off ---- the sun was -----

:: THE END::