

1. Insert the sign $<$, $>$ or $=$ in the \square .

- a. $0.823 \square 0.832$
- b. $12.34 \square 12.41$
- c. $4.234 \square 4.432$
- d. $23.428 \square 23.42800$
- e. $1.82 \square 1.819$
- f. $200.98 \square 200.199$

2. Arrange 12.421 , 12.412 , 12.241 and 12.124 in ascending order.

3. Express in Rupees using decimals.

- a) 75 paise
- b) 1 Rs 4 paise
- c) 2 paise
- d) 5 Rs ⁵paise

4. Express the following into.

i) meter using decimals

- a) 20 cm
- b) 2 m 50 cm
- c) 70 m.m.
- d) 120 cm

ii) Km using decimals

- a) 200 m
- b) 2 km 50 m
- c) 50 m
- d) 20 km 5 m

iii) Kg using decimals

- a) 75 g
- b) 3 kg 500 g
- c) 5 kg 50 g
- d) 2250 g

5. what is the sum of 22.48 , 125.692 , 4.8 and 0.0984 .

6. Find: a) $24.62 + 9.824 + 0.0042 + 6$

b) $281.64 + 7 + 7.824 + 98.42$

7. Subtract: a) 92.6982 from 200.52 .

b) 432.68 from 500 .

8. Represent the given data in tabular form using tally marks.

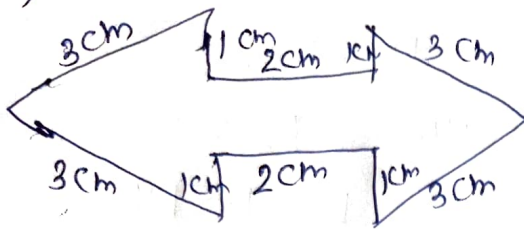
R \rightarrow Red, Y \rightarrow yellow, G \rightarrow Green, B \rightarrow Blue.

Y, B, R, Y, G, R, B, Y, R, Y, R, G,

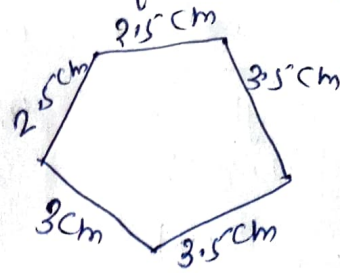
B, Y, G, B, Y, G, R.

9. Find the perimeter of the following.

(i)



(ii)



CLASS- 6, A, B, C

LALIT KUMAR
DIVYA BUNDE

10) Find the perimeter of the triangle:

i) Sides of a scalene triangle are 4.5 cm, 3.5 cm and 4 cm.

ii) Sides of an equilateral triangle is 6 cm each.

iii) One side of an isosceles triangle is 12 cm and two equal sides are 8 cm each.

11. A side of a ^{regular} pentagon is 10 cm. Find the perimeter of the pentagon.

12. Find the area of the rectangles whose

- a) Length = 4 cm Breadth = 3 cm
 b) " = 5.2 cm " = 4.5 cm

13. Find the area of the squares whose side is

- a) side = 8 cm b) side = 10 cm,

14. What is the cost of plastering the floor of a rectangular room whose length is 8 m and breadth 5 m and cost of plastering ₹ 100 per m².

15. Find the cost of white washing a square wall of side 5 m at the rate ₹ 50 per m².

16. Following marks of class VI students.

- 5, 9, 3, 4, 8, 7, 6, 5 i) Arrange the marks in a table using tall marks.
 7, 5, 2, 1, 2, 6, 7, 5 ii) Which marks got most of the students?
 5, 6, 3, 4, 3, 5, 5 iii) How many students got 9 marks?
 5, 7, 5, 2, 5, 1, 5

WINTER VACATION HOMEWORK

CLASS 7 : 2023-24

1. Write 4-equivalent fraction number to:

a) $\frac{3}{4}$

b) $\frac{5}{6}$

c) $-\frac{6}{7}$

2. Find 4-rational numbers between:

a) $-\frac{2}{3}$ and $-\frac{3}{4}$

b) $\frac{2}{5}$ and $\frac{3}{10}$

c) $-\frac{1}{2}$ and $\frac{3}{4}$

3. Write in ascending order:

a) $\frac{3}{8}, \frac{1}{12}, \frac{3}{4}, \frac{5}{6}, \frac{7}{24}$

b) $-\frac{1}{5}, -\frac{7}{10}, \frac{-2}{15}, -\frac{1}{30}$

4. Add: i) $\frac{3}{4} + \frac{(-5)}{6}$

ii) $\frac{(-3)}{14} + \frac{(-6)}{7}$

5. Subtract: i) $-\frac{3}{8}$ from $-\frac{1}{4}$

ii) $\frac{3}{5}$ from $-\frac{3}{10}$

6. Solve the following:

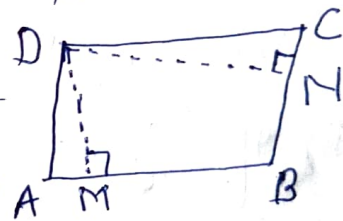
i) $\frac{-3}{28} \times \frac{-21}{15}$

ii) $\frac{7}{25} \times \frac{-50}{49}$

iii) $\frac{16}{25} \div \frac{-48}{75}$

iv) $\frac{-3}{10} \div \frac{-15}{25}$

7. ABCD is a parallelogram. DM and DN are heights from D to AB and BC respectively of AB = 4.8 cm, BC = 3.2 cm and DN = 1.2 cm. Then



Find DM = ?

8. Find the missing values:

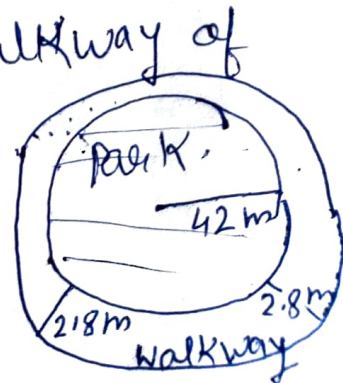
S.No.	Base	Height	Area of triangle
a)	8 cm	5 cm	36 cm ²
b)	7.2 cm	4.8 cm	72 cm ²
c)	---	---	246 cm ²
d)	20 cm	---	---

9. Find the perimeter and area of the circles whose:

a) radius = 7 cm

b) diameter = 14 cm

10. A circular park of radius 42 m. A walkway of ~~radius 2.8 m~~ 2.8 m wide runs around along its outer edge. Find the cost of construction this walkway at the rate Rs 50 per m².



11. Identify the terms and factors:

i) By tree diagram.

a) $-ab + 2ab^2 - 3a^2b$ b) $4xy - 5xy^2 + 3xyz$

ii) By making table.

a) $-4x + 5y$ b) $12ab + 4bc - 7ca$ c) $5x + 2y^2 - 3yz$

12. Identify the numerical coefficient of the terms other than constant:

a) $7 + 4ab - 5ab^2$ b) $4xy - 3x^2y + 2y^2$ c) $5ab^2 + 3a^2b - 8$ d) $5 - 3x^2$

13. If $a = 2$, $b = -1$, $x = -2$ and $y = 1$. Find the value of the following:

a) $2a - 3b$ b) $4a^2 + 3(a^2 - 2) + b^2$ c) $4x^2 + 5y$ d) $-4x + 3y^2$

14. Simplify the expression and find the value of $x = 2$, $y = 1$


a) $4x + 7 + 2(x - 4)$ b) $4(x + y) + 2x - y$


c) $3x^2 + y^2 + 2x - y$ d) $3(2x - y) + 4x + y$

15. i) If $x = 10$, find the value of $x^3 - 3(x - 10)$

ii) If $y = -10$, find the value of $y^2 - 2y - 100$

CLASS: 8: A, B, C

LALIT KUMAR → 

DIVYA BUNDEL → 

WINTER VACATION HOMEWORK
CLASS-8: 2023-24

1. Add:

- a) $3x - 4y + 7z$, $-4x - 2y - 3z$ and $-2x + 3y + 4z$
b) $2ab + 3bc - 4ca$, $-5ab - 7bc + 2ca$ and $6ab - bc + ca$

2. Subtract:

- a) $2a - 3b - 4c$ from $-7a - 6b - 5c$
b) $-3xy + 4yz - 5zx$ from $4zx + 8yz - 7xy$

3. Multiplying the following:

- a) $-4x^2$, $-3xy$ b) $-2a^2b$, $3ab^2$ c) $4xy$, $(2x - 3y)$
d) $-2ab$, $(3a - 2b)$ e) $2a^2 \times 3a^3x - 4a^4(y)$ $2xy \times -3x^2y^2x - 4xy^2$

4. Multiplying the binomials

- a) $(2x - 3y)$ and $(3x - 2y)$ b) $(4a^2b - 5ab^2)$ and $(2a - 3b)$
c) $(a + 3b)$ and $(x + 5)$ d) $(2a^2b^2 - 3ab)$ and $(a + b)$

5. Add: $2x(x - y - z)$, $3x(4x - 3y + z)$ and $4x(2x - 3y + 5z)$

6. The area of a trapezium shaped field 480 m^2 , the distance between two parallel side is 15 m and one of the parallel side is 20 m . Find the other parallel side.

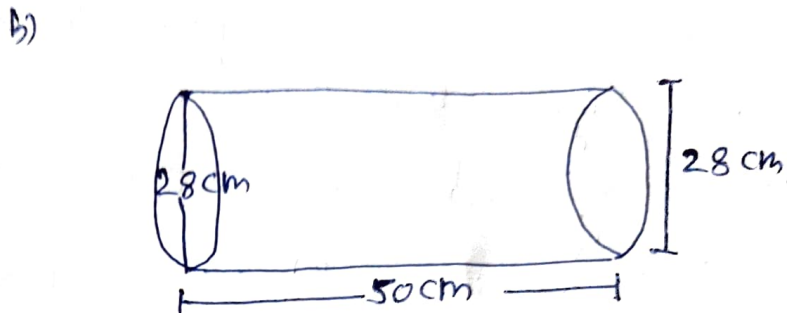
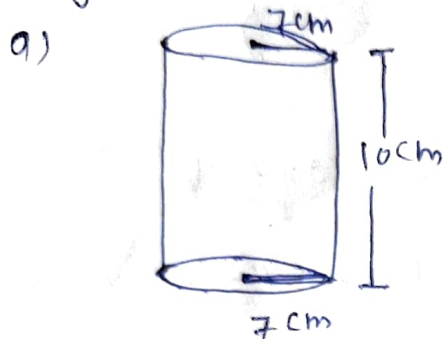
7. An aquarium is in the form of cuboid, whose external measures are $80 \text{ cm} \times 30 \text{ cm} \times 40 \text{ cm}$. The base, side faces and back face are to be covered with a coloured paper. Find the area of coloured paper needed.

8. In a building there are 24 ~~pillar~~ cylindrical pillars. The radius of each pillar is 28 cm and height 4 m . Find the cost of painting the curved surface area of all pillars at the rate of $\text{₹ } 8 \text{ per m}^2$.

9. Find the T.S.A and L.S.A of the cube whose side is
a) side = 5 m b) side = 10 cm

10. A rectangular paper of width 14 cm is rolled along its width and radius of the cylinder is 20 cm. Find the volume and C.S.A of the cylinder.

11. Find the volume, S.S.A and T.S.A of the following cylinders.



12. Find the area of a trapezium whose one parallel side is twice the other and distance between 4 cm and small ~~side~~ parallel side is 6 cm.

13. Simplify and express the result in power notation

a) $[(-4)^5 \times (-4)^3] \div (-4)^2$

b) $(-2)^3 (2^3 \times 2^{-4} \times 2^5)$
 $(2^4 \times 2^6)$

14. Evaluate:

i) $\frac{8^{-1} \times 5^3 \times 6^3}{10^2 \times 4^{-3}}$

ii) $\frac{27^3 \times 9^{-3} \times 5^3}{3^7 \times 15^3}$

15. Express in standard form.

i) 0.0000000000000000000000016

ii) 3478000

iii) speed of light 300000000 m/sec.

16. write in used form.

i) size of bacteria = 5×10^{-7} m

ii) charge on an electron = 1.6×10^{-19} coulomb.

CLASS-7, A, B, C

1. LALIT KUMAR

2. RAJENDRA CHAWALA

Winter Break Holiday Homework

Class - IX - B

Subject - Maths

1. Multi Disiplinary Project - Any One Topic which discuss in classrome

2. CH-8 → Theoram → 8.3, 8.5, 8.8

Example → 3

EX - 8.1 → Q3, Q5, Q7

EX - 8.2 → Q1, Q4, Q6

3. CH-9 → Theoram → 9.1, 9.4, 9.7

Example → 1, 3, 5

EX - 9.1 → Q2

EX - 9.2 → Q2, Q4, Q5

EX - 9.3 → Q2, Q4, Q5, Q8

4. CH-10 → Example → 2

EX → 10.1 ⇒ Q2, Q5, Q6

5. CH-11 → Example → 2, 3, 7, 9, 11, 12

EX - 11.1 → Q3, Q5, Q8

EX - 11.2 → Q4, Q5, Q8

EX - 11.3 → Q4, Q5, Q9

EX - 11.4 → Q3, Q5, Q8, Q10

XIth MATHS

Notes

winter Break holiday homework

class - 11

subject - maths.

1. Ch-10

Ex. 3, 4,

Ex 10.1 & No. 3, 5, 8, 10, 12, 15

Example - 8

Ex 10.2 Q 3 & 4, Q 9 & 12

Example - 10, 11

Ex 10.3 - Q 4, 7, 9, Q 12, 14, 17, 19

Example no 16

Ex 10.4 - Q 5, Q 6, Q 10, 13.

Ex 11.1 Q 3.

Ex 11.2 Q 2, 4, 5.

Ch. 12

Theorem - 2

Example No 3

Ex 12.1 Q 4, Q 5, (9), 10, 13, 18, 23, 26, 28, 30, 32

Example - 12, 16,

Ex 12.2 Q 4 (ii) (iii) Q 7, 9, ~~Q 11~~ (I) (ii) (vi)

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