



SCHOOL ACADEMIC RESOURCE

Academic Year & Term	2026 -27 TERM 1
Class	VII
Subject	MATHEMATICS
Topic/Chapter	MIDTERM WORKSHEET
Section	MIDDLE
Date of Issue	SEPTEMBER 2026

CHAPTER 1: LARGE NUMBERS AROUND US

I CHOOSE THE CORRECT ANSWER

- 1 billion is equal to:
a) 10 crore b) 1 lakh c) 100 lakh d) 100 crore
- How many zeros are there in 1 crore?
a) 5 b) 6 c) 7 d) 8
- Which is greater?
a) 30 thousand b) 3 lakh c) Equal d) not determined
- 100 thousand is equal to:
a) 10,000 b) 1,00,000 c) 10,00,000 d) 1,000
- Put commas as per Indian number system 4050678:
a) 40,50,678 b) 4,050,678 c) 4,05,06,78 d) 40,05,678

II ANSWER THE FOLLOWING

- Write number names : a) 8,64,075 b) 50,28,375 c) 7,49,386 d) 600,025
- Write numerals:
a) Fifty lakh five thousand fifty
b) Thirty-seven lakh forty-eight thousand and seven hundred sixty-three
c) Thirty-two million six hundred sixty thousand and five hundred five
d) Hundred thousand six hundred twenty
- Write number names in Indian system: a) 48121620 b) 503012689
- Write number names in International system a) 3268431 b) 2414360
- Compare: a) 40 thousand ____ 5 lakh
b) 4 crore ____ 4 million
c) 5 crore ____ 500 lakh
- Find quick ways to calculate : a) 72×125 b) 48×25 c) 648×50 d) 250×84

CHAPTER 2: ARITHMETIC EXPRESSIONS

I CHOOSE THE CORRECT ANSWER

- The value of the expression $25 - 5 \times 3 + 2$ is:
(a) 12 (b) 10 (c) 30 (d) 15
- Which of the following expressions is NOT equal to 5×8 ?
(a) $(10 - 5) \times 8$ (b) $5 \times (4 + 4)$ (c) $5 \times 10 - 5 \times 2$ (d) $(5 \times 4) + 2$
- The expression $200 - (30 - 10)$ is equivalent to:
(a) $200 - 30 - 10$ (b) $200 + 30 + 10$ (c) $200 - 30 + 10$ (d) $(200 - 30) - 10$
- Without calculating, determine which expression is smaller: 75×15 or 75×10 ?
(a) 75×15 (b) 75×10 (c) They are equal. (d) Cannot be determined.
- The terms of the expression $10 \div 2 + 5 \times 3 - 6$ are:
(a) 10, 2, 5, 3, -6 (b) $10 \div 2$, 5×3 , -6 (c) $10 \div 2$, 5×3 , 6 (d) 5, 15, -6
- What is the value of $18 - 6 \div 3$?
a) 4 b) 12 c) 16 d) 6

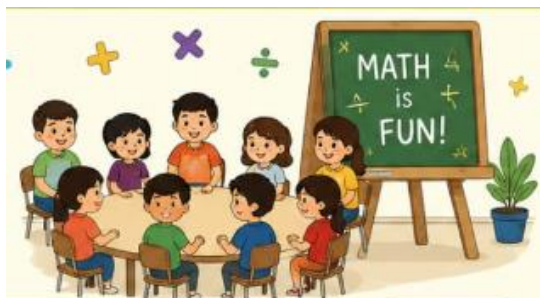
II ANSWER THE FOLLOWING

- Write the expression for: 3 times the sum of 45 and 28, then subtract 72 from it. Find its value
- Fill in the blanks to balance the equations:
(a) $13 + 4 = \underline{\quad} + 6$ (b) $22 + \underline{\quad} = 6 \times 5$
- Riya has 5 packets of pencils. Each packet contains 8 pencils. She gives away 6 pencils. Write an arithmetic expression for the number of pencils left and find the number.
- A vendor sells 15 apples at Rs.12 each and 10 oranges at Rs. 8 each. He spends Rs. 50 on transport. Write an expression for his total revenue and find it.

III CASE STUDY

- A school is organising a mathematics activity. There are 6 groups, and each group has 8 students. Another 5 students join the activity later.

- Write an arithmetic expression for the total number of students.
- Find the total number of students.
- If 7 students leave, write an expression for the number of students remaining and find the number .



CHAPTER 3: A PEAK BEYOND THE POINT

I. CHOOSE THE CORRECT ANSWER

1. 8 kilometers = ____ meters.

- (a) 80 (b) 8000 (c) 800 (d) 80000

2. Which of the following decimals is equal to $\frac{3}{4}$

- (a) 0.34 (b) 0.25 (c) 0.5 (d) 0.75

3. Rahul purchased 0.25 kg of beans, 0.3 kg of carrots, 0.5 kg of potatoes, 0.2 kg of capsicums, and 0.05 kg of ginger. What is the total weight of the vegetables?

- (a) 1.1 kg (b) 1.2 kg (c) 1.3 kg (d) 1.5 kg

4. Assertion (A): $4\frac{1}{10}$ is greater than $4\frac{1}{100}$.

Reason (R): one tenth is greater than one hundredth.

- a) Both A and R are true, and R is the correct explanation of A.
b) Both A and R are true, but R is not the correct explanation of A.
c) A is false, but R is true.
d) A is true, but R is false.

II) ANSWER THE FOLLOWING

1. Write 126.894 in expanded form.

2. Extend the pattern and find next four Numbers

4.4, 4.45, 4.5, _____, _____, _____, _____

$4, 4\frac{3}{10}, 4\frac{6}{10},$ _____, _____, _____, _____

3. Subtract a) $15.8 - 7.68$ b) $14\frac{9}{100} - 7\frac{6}{100}$

4. Draw Number line and mark three numbers:

8.4, 8.6 and 8.8

5. Convert

- a) 850 Paise = _____ Rupees b) 70 cm = _____ meter

6. Add

- a) $17\frac{6}{100} + 24\frac{2}{100} + 8\frac{1}{10}$ b) $19\frac{3}{10}\frac{2}{100} + 15\frac{2}{100}$

III CASE STUDY

1. Ramu supplies 3.79 L, 4.2 L, 4.25 L and 1.5 L of milk to “milk dairy” in the first four days.

- a. What is the difference between first day and fourth day Milk quantity?
b. What is the total quantity of milk supplied in the first three days?

CHAPTER 4: EXPRESSIONS USING LETTER NUMBERS

I. CHOOSE THE CORRECT ANSWER

1. If the expression for the total cost of x notebooks is $40x$, what is the cost of 5 notebooks?
(a) ₹45 (b) ₹40 (c) ₹200 (d) ₹9
2. If $k=4$, then the value of $3k+2$ is?
(a) 10 (b) 12 (c) 14 (d) 6
3. Which expression represents “twice a number m decreased by 7” ?
(a) $2m-7$ (b) $m-7$ (c) $7m-2$ (d) $2(m+7)$
4. **Assertion (A):** Coefficient of x in $7x+3$ is 3.

Reason(R): Coefficient is the constant multiplied to a variable.

- a) Both A and R are true and R is the correct explanation of A
- b) Both A and R are true but R is not the correct explanation of A
- c) A is true but R is false
- d) A is false and R is true

II. ANSWER THE FOLLOWING

1. Simplify the following expressions and find its value:
(a) $12m-(3m+4n)+2n$ if $m=4$ and $n=-1$
(b) $5(2x-3y)+3(4y-6x)-(x+y)$ if $x=-2$ and $y=5$.
2. Add the expressions given below:
(a) $6p+2q-1$ and $p-3q+4$
(b) $2f-8g-3h$ and $4(3f+g)+5h$
3. Subtract the expressions given below:
(a) $2a+b-2c$ from $4a-5b+3c$
(b) $18a-12b+20$ from $16a-(8b+12)$

III. CASE STUDY

1. A student walks along the sides of a rectangular park with length $(2x+3)$ m and breadth $(x+4)$ m. Then he walks 25m more.



- (a) Find the perimeter of the rectangular park.
- (b) Find the total distance walked by the student and simplify the expression.
- (c) Find the total distance walked when $x=7$.

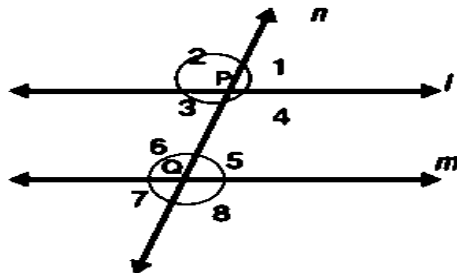
L-5 PARALLEL AND INTERSECTING LINES.

I. CHOOSE THE CORRECT ANSWER

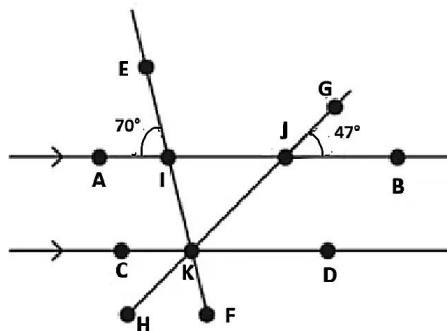
1. Pair of adjacent angles whose measures add up to form a straight angle is known as a _____.
a) Parallel line b) linear pair c) perpendicular line d) supplementary angle.
2. When a transversal intersects two parallel lines, which of the following is always true?
a) Corresponding angles are supplementary. b) Alternate interior angles are equal.
c) Consecutive interior angles are equal. d) Vertically opposite angles are unequal.
3. ____ lines are two lines that intersect at a right angle.
a) Vertically opposite angles b) Perpendicular c) Parallel d) Straight line.
4. A line that intersects two lines at different points is called a _____.
a) Parallel b) Perpendicular c) Transversal d) Diagonal.
5. **Assertion (A):** If two parallel lines are cut by a transversal, then each pair of corresponding angles are equal.
Reason (R): A transversal intersects two parallel lines. If measure of one of the angles is 100° then the measure of its corresponding angle is 100° .
a) Both A and R are correct and R is the correct explanation of A.
b) Both A and R are correct and R is not the correct explanation of A.
c) A is true but the R is false.
d) A is false but R is true.

II ANSWER THE FOLLOWING

1. In Fig line $l \parallel m$ and a transversal n cuts them P and Q respectively. If $\angle 1 = 45^\circ$, find all other angles.

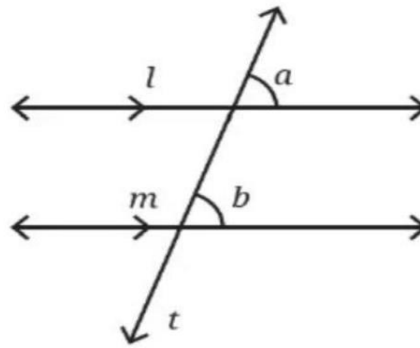
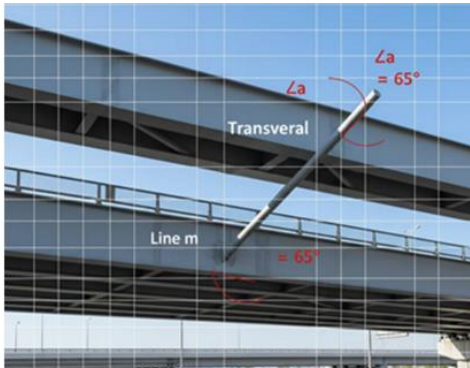


2. In the adjoining figure, $\angle AIE = 70^\circ$ and $\angle BJG = 47^\circ$. Find angles $\angle CKH$, $\angle HKF$, $\angle FKD$.



III. CASE STUDY

1. An over bridge is supported by two parallel beams (lines l and m). A diagonal support rod (transversal) connects the beams and creates corresponding angles $\angle a$ and $\angle b$. Worker's measure $\angle a = 65^\circ$.



- What is the measure of $\angle b$?
- Which property relates $\angle a$ and $\angle b$?
- What should be the sum of interior angles on the same side of the transversal?

L-6-NUMBER PLAY

I CHOOSE THE CORRECT ANSWER

- The sum of 5 odd numbers is always:
a) Odd b) Even c) Prime d) 0
- Which expression always gives odd numbers?
a) $2n$ b) $4n$ c) $2n+1$ d) $6n$
- The 15th odd number is:
a) 25 b) 29 c) 20 d) 15
- What is the parity of $24 + 17 + 9$?
a) Even b) Odd c) Prime d) Cannot be determined
- Which number does not belong to the Virahanka-Fibonacci sequence?
a) 13 b) 21 c) 34 d) 36
- Assertion (A):** The difference between two odd numbers is always even.
Reason (R): Odd – Odd = Even.
a) Both A and R are true, and R is the correct explanation of A.
b) Both A and R are true, but R is not the correct explanation of A.
c) A is true, but R is false.
d) A is false, but R is true.

II ANSWER THE FOLLOWING

- What is parity of sum of 5 odd numbers and 2 even numbers?
- Two consecutive Virahanka numbers are 610 and 987. Find next 2 and previous 2 Virahanka numbers?
- A bulb is initially OFF. It is toggled 125 times. Is the bulb ON or OFF?

10. Priya and Rohan, two siblings born one year apart, celebrate their birthdays. Priya claims the sum of their age is 25. Is this possible?

CHAPTER 7: A TALE OF THREE INTERSECTING LINES

I. CHOOSE THE CORRECT ANSWER

1. If two angles of a triangle are 80° and 60° What is the measure of the third angle?
a) 30° b) 40° c) 50° d) 60°
2. In triangle ABC, the exterior angle at B is 130° and $\angle A = 50^\circ$. The measure of $\angle C$ is
a) 85° b) 70° c) 75 d) 80°
3. In an isosceles triangle, if the measure of an unequal angle is 40. Find the measure of the equal angles.
a) 50° b) 70° c) 69° d) 59°
4. **Assertion (A):** A triangle can be formed with sides 5 cm, 7 cm and 13 cm
Reason (R): The sum of the length of any two sides of a triangle must be greater than third side
(a) Both A and R are true, and R is the correct explanation of A.
(b) Both A and R are true, but R is not the correct explanation of A
(c) A is true but R is false
(d) A is false but R is true

II ANSWER THE FOLLOWING

1. Find the third angle of a triangle (using parallel line)
a 25° and 95° b 55° and 65°
2. In a triangle two interior angles are 52° and 63° . Find the measure of the corresponding exterior angle.
3. Construct the triangles for the following measurements
a) 45° , 6cm, 80° b) 4cm, 5cm, 65°

III.CASE STUDY

1. An artist creates a triangular art installation using two angles measuring 48° and 72° . To maintain symmetry, the third angle must be calculated without using tools. The artist applies a fundamental property of triangles to complete the design accurately.



Answer the following questions:

- (a) State the property used.
- (b) Classify the triangle by angles.
- (c) Find the third angle.

CHAPTER 8: WORKING WITH FRACTIONS

I. CHOOSE THE CORRECT ANSWER:

1. What is the product of $\frac{5}{7} \times \frac{2}{5}$?
a) $\frac{10}{20}$ b) $\frac{10}{35}$ c) $\frac{3}{5}$ d) $\frac{2}{7}$

2. When one of the numbers being multiplied is greater than 1, the product is _____ than the other number.
- a) Greater b) less c) equal to d) unpredictable
3. Raj planted four saplings in a row in his garden. The distance between two saplings is $\frac{7}{4}$ m. What is the distance between first and last sapling.
- a) $\frac{15}{4}$ b) $\frac{5}{4}$ c) $\frac{3}{4}$ d) $\frac{21}{4}$
4. **Assertion (A):** $\frac{3}{4} \times 12 = 9$
- Reason (R):** When a number is multiplied by a fraction between 0 and 1, the product is less than the number.
- a) Both A and R are true, R is correct explanation of A.
- b) Both A and R are true, but R does not explain A.
- c) A is true, R is false.
- d) A is false, R is true.
5. **Assertion (A):** $\frac{3}{5} \div \frac{2}{3} = \frac{6}{15}$
- Reason (R):** To divide fractions, we multiply the dividend by the reciprocal of the divisor.
- a) Both A and R are true, R is correct explanation of A.
- b) Both A and R are true, but R does not explain A.
- c) A is true, R is false.
- d) A is false, R is true.

II.SOLVE THE FOLLOWING

1. Multiply and convert into a mixed fraction
- a) $\frac{7}{5} \times 8$ b) $5 \times 3\frac{2}{3}$ c) $\frac{5}{3} \times \frac{14}{2}$
2. Evaluate the following:
- a) $7\frac{1}{2} \div \frac{11}{4}$ b) $\frac{3}{25} \div \frac{8}{15}$ c) $5 \div 1\frac{3}{5}$
3. Which is more:
- a) $\frac{4}{5}$ of 3kgs or $\frac{2}{5}$ of 4500g b) $\frac{3}{5}$ of 1500ml or $\frac{2}{8}$ of 4.8litres
4. A recipe needs $\frac{2}{3}$ cup of oil for one batch of cookies. How many batches can be made using 5 cups of oil?

III.CASE STUDY

1. A carton contains 72 juice boxes. Aisha takes $\frac{1}{6}$ of them, Bilal takes $\frac{1}{8}$ of them, and the rest are kept for a school event.
- a) How many juice boxes does Aisha take?
- b) How many juice boxes does Bilal take?
- c) What fraction and number of juice boxes remain for the event?

NOTE : REFER TO TEXTBOOK AND ALL NOTES & WORKSHEETS OF TERM 1 DISCUSSED AND UPLOADED IN GOOGLE CLASSROOM