

INTERNATIONAL INDIAN SCHOOL, DAMMAM

MIDDLE SECTION

MID TERM REVISION WORKSHEET 2023-2024

CLASS: 6

SUBJECT: MATHEMATICS

CHAPTER 1 – KNOWING OUR NUMBERS

I. CHOOSE THE CORRECT OPTION:

1. Ten hundred thousand = ____ lakhs.
a) 1 b) 100 c) 10 d) 1000
2. Forty five lakhs ninety seven thousand one
a) 4509701 b) 4597001 c) 4500971 d) 458501
3. How many milligram make kilogram?
a) 1,00,000mg b) 10,000mg c) 1000mg d) 10,00,000mg
4. In a shop number of sarees sold in the year 2020-2021 is 50595. In a year 2021-2022, 40500 sarees sold. In which year were less sarees sold? How many less?
a) (2021-2022), 12095 b) (2021-2022), 10095
c) (2020-2021), 11095 d) (2020-2021), 15095
5. What is the successor of greatest 6-digit number?
a) 1,00,000 b) Smallest 7-digit number
c) 9,99,999 d) Greatest 7-digit number
6. Write the smallest three digit number whose value does not change on reversing its digits.
a) 101 b) 202 c) 100 d) 105
7. What is the place value of 7 in 1753.
a) 70 b) 7000 c) 700 d) 7
8. Write the smallest and greatest 5 digit number using the digits 0,2,4,6,8 without repetition.

- a) (24068,86420) b) (20468, 86402) c) (20468, 86420) d)
(20468, 96420)

9. Write the expanded form of 901091: _____ .

II. ASSERTION REASONING QUESTIONS:

1. **Assertion: 67,50,983 is correct in International system of numeration.**

Reason: 100,000,000 is the sequence of comma in International system of numeration.

- a) Both Assertion and Reason are correct and Reason is the correct explanation for Assertion
b) Both Assertion and Reason are correct and Reason is not the correct explanation for Assertion.
c) Assertion is true but the reason is false.
d) Assertion is false but reason is true.

CHAPTER 2- WHOLE NUMBERS

Choose the correct option:

1. The successor of the smallest counting number is
- (a) 0 (b) 1 (c) 2 (d) none of these
2. The smallest whole number is
- (a) 0 (b) 1 (c) -1 (d) none of these
3. Every whole number except is a natural number.
- (a) 1 (b) 1 (c) 0 (d) 2
4. What are the three consecutive predecessors of 70010?
- (a) 70009,70008,70007 (b) 70011,70012,70013 (c) 70009,70010,70011 (d) none of these
5. The natural number that has no predecessor is
- (a) 1 (b) 2 (c) 10 (d) 0
6. Which of the following is true?

(a) $210 > 201$ (b) $201 > 210$ (c) $210 = 201$ (d) $210 < 201$

7. To find the successor of a number , we have to add to the number.

(a) 4 (b) 3 (c) 2 (d) 1

8. The whole number which does not have predecessor

(a) 0 (b) 1 (c) 2 (d) none of these

9. The number of whole numbers between 22 and 54 is

(a) 31 (b) 32 (c) 30 (d) 35

10. Which of the following statement is true?

(a) All natural numbers are also whole numbers.

(b) All whole numbers are also natural numbers.

(c) There is no smallest whole number.

(d) The greatest whole number is 100.

CHAPTER 3 - PLAYING WITH NUMBERS

I CHOOSE THE CORRECT ANSWERS:

1. **A number which has only two factors is called a -----**

a) Composite no. b) prime number c) whole number d) even number

2. **The smallest composite number is -----**

a) 1 b) 0 c) 2 d) 4

3. **Two numbers having only 1 as a common factors are called -----**

a) Prime number b) co- prime number c) twin prime number d) composite no

4. **Every prime number except ----- is odd**

a) 2 b) 0 c) 5 d) 7

5. **Assertion (A) –The factors of 16 are 1, 2, 4, 8 ,16.**

Reason (R) – Every factor is greater than or equal to the given number.

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.

6. Assertion (A) – 4829 is divisible by 2.

Reason (R) – A number is divisible by 2 if it has any of the digits 0, 2, 4, 6 or 8 in its ones place.

- 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.

7. Assertion (A) – 132 is divisible by 11.

Reason (R) – find the difference between the sum of the digits at odd places (from the right) and the sum of the digits at even places (from the right) of the number. If the difference is either 0 or divisible by 11, then the number is divisible by 11.

- 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

8. Assertion (A) – The HCF of 20, 28 and 36 is 2

Reason (R) – The Highest Common Factor (HCF) of two or more given numbers is the highest (or greatest) of their common factors

- 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

9. Assertion (A) – The multiples of 5 are 5, 10, 15, 20, ...

Reason (R) – the number of multiples of a given number is infinite

- 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

CASE - BASED STUDY

1.)In a seminar, the number of participants in Mathematics, Physics and Chemistry are 60, 96 and 144 respectively.

i) Find the number of rooms required if in each room, the same number of ‘ participants are to be seated.

ii) Find the LCM of the given participants.

2.)111 cows, 185 sheep and 296 goats are to be taken across a river. There is only one boat and the boats man says; he will take the same number and same kind of animals in each trip.

i Find the largest number of animals in each trip

ii Number of trips he will have to make.

3.

Book Shop: A book seller has 420 science stream books and 130 arts stream books. He wants to stack them in such a way that each stack has the same number and they take up the least area of the surface.

(i) If a number has no factors other than 1 and number itself is:

- (a) Composite (b) Prime
- (c) Do not say anything (d) None of the above

(ii) What is the maximum number of books that can be placed in each stack for this purpose?

- (a) 10 (b) 14 (c) 12 (d) 15

Find the LCM of the given book streams.

- (a) 5450 (b) 5460 (c) 2730 (d) None of these.

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CHAPTER 4- BASIC GEOMETRICAL IDEAS

CHOOSE THE CORRECT OPTION:-

- 1) How many lines can be drawn through given two points?
(a) Only one (b) 2 (c) 4 (d) Countless
- 2) The lines which do not intersect and have equal distance between them are called:
a) Parallel lines b) Straight lines c) Intersecting lines d) Perpendicular lines
- 3) A _____ is a simple closed curve made up of line segments.
a) Triangle b) polygon c) arc d) angle
- 4) Two distinct lines meeting at a point are called _____.
a) Collinear points b) parallel lines c) intersecting lines d) none of these
- 5) The line segments forming a polygon are called _____
a) sides b) vertex c) angle d) curve
- 6) An _____ is made up of two rays starting from common endpoint.
a) vertex b) curve c) angle d) side
- 7) What is the number of end points of a line?
(a) Zero (b) Two (c) One (d) Three
- 8) The meeting point of a pair of adjacent sides of a polygon is called its:
(a) vertex (b) diagonal (c) adjacent angles (d) none of these

9) Assertion (A):



Reason (R) –Two or more lines that lie in the same plane and never intersect each other are known as parallel lines

- 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

10) Assertion (A) –A line contains a countless number of points

Reason (R) –Line extends indefinitely in both directions.

- 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

CHAPTER-7 FRACTIONS

Choose the correct answer

1. If the numerator and denominator of a fraction are equal, then the fraction:
 (a) is equal to 1 (b) is less than 1 (c) is equal to 0 (d) is greater than 1

2. A fraction whose denominator is greater than its numerator is called a:
 (a) proper fraction (b) unit fraction (c) improper fraction (d) none of the above

3. A fraction with numerator 1 is called a
 (a) mixed number (b) proper fraction (c) unit fraction (d) like fraction

4. The largest of the fractions $\frac{4}{5}$, $\frac{4}{7}$, $\frac{4}{9}$, $\frac{4}{11}$ is:
 (a) $\frac{4}{5}$ (b) $\frac{4}{7}$ (c) $\frac{4}{9}$
 (d) $\frac{4}{11}$

5. If $\frac{3}{4} = \frac{x}{24}$, then x = (a) 4 (b) 6 (c) 12 (d) 18

6. Match the following

| Column I | Column II |
|--|---------------------|
| a) $\frac{2}{3} + \frac{1}{7}$ | $= 6 \frac{19}{30}$ |
| b) Subtract $\frac{3}{4}$ from $\frac{5}{6}$ | $= 1 \frac{11}{12}$ |
| c) $(8\frac{1}{4}) - (2\frac{5}{7})$ | $= \frac{1}{12}$ |
| d) $\frac{2}{3} + \frac{3}{4} + \frac{1}{2}$ | $= \frac{17}{21}$ |
| e) Add $2\frac{4}{5}$ and $3\frac{5}{6}$ | $= 5\frac{5}{12}$ |

Case Study I. Parul and two of her friends share pizza equally among themselves.

Qi. Parul says, 'Here are three equal halves of the pizza.' Is Parul's statement correct? Give reasons.

Q.ii. which fraction represents one part of the whole pizza?

Qiii. Write the fraction for each part if the pizza is divided into six equal parts.

Assertion Reasoning Questions:

I Assertion (A) – $\frac{1}{2}$ fraction of ₹ 1 is 25 paise

Reason (R) – a fraction is a number representing part of a whole

- 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 Assertion (A) – $\frac{1}{2}$ fraction of an hour is 30 minutes

Reason (R) – a fraction is a number representing part of a whole

- 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

Direction: In the following questions , a statement of **Assertion (A)** is followed by a statement of **Reason(R)** .

Choose the correct option

Q1. Statement A(Assertion) : The factors of 34 are 1, 2, 17 and 34 itself

Statement R (Reason): Every factor is less than or equal to the given number.

(a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A)

(b) Both assertion (A) and reason (R) are true and reason (R) is not the correct explanation of assertion (A)

(c) Assertion (A) is true but reason (R) is false.

(d) Assertion (A) is false but reason (R) is true.

Ans: (a)

Q2. Statement A(Assertion) : 36 is divisible by 9

Statement R (Reason): if the sum of the digits of a number is divisible by 3, then the number itself is divisible by 9

(a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A)

(b) Both assertion (A) and reason (R) are true and reason (R) is not the correct explanation of assertion (A)

(c) Assertion (A) is true but reason (R) is false.

(d) Assertion (A) is false but reason (R) is true.

Ans: (c)

Q3. Assertion (A) :A circle is a polygon .

Reason (R) :A polygon is a simple closed curve.

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

e) Ans : (d)

Q4. Assertion (A): Two lines P and Q pass through point A. We say P and Q intersect at A.

Reason (R): If two lines have one common point, they are called intersecting lines.

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

Ans: (a)

SAMPLE CASE STUDY QUESTIONS

Q1) Meenu is in the market and buying a few groceries. Her mother gives her a detailed list below. By mistake the list falls in a muddy puddle. Due to this the ink vanished and the list was incomplete. Meenu couldn't go back to her home as it was very far and her mother would scold her. So Meenu had to use her Math skills and complete the list. She completed it and finishes the shopping. If you were Meenu, see the list and answer the below questions

| SUPER MART LIST | | | | |
|-----------------|------------|-------------|------|----------|
| No. | Item Name | Cost per kg | Qty. | Total |
| 1 | Potatoes | ₹ 40.50 | 2 kg | |
| 2 | Onions | ₹ 20.70 | 5 kg | ₹ 103.50 |
| 3 | Mustard | ₹ 15.00 | | ₹ 45.00 |
| 4 | Dal | ₹ 25.60 | 3 kg | |
| 5 | Dry Chilli | ₹ 32.80 | 1 kg | ₹ 32.80 |
| GRAND TOTAL = | | | | |



- What is the total cost of Potatoes? (1 Mark)
- How much is the quantity of Mustard mother wrote in the list? (1 Mark)
- How much is the grand total cost of all items in the list ? (2 Mark)

Q2) Nitu was arranging a fabulous birthday party for her friends on her 10th birthday. She invited all her friends. She decorated her house beautifully. Her mother gifted her a beautiful party dress. Her father ordered all food items from a hotel. Her mother was making juice for the party. She prepared 1 litre of orange juice and 750 ml of pineapple juice. She was having glasses of capacity 30 ml.



- a) Find the number of glasses of orange juice ? (1 Mark)
- b) Find the number of glasses of pineapple juice ? (1 Mark)
- c) Find the total number of glasses of juice ? How much is the quantity of juice left after filling all the glasses? (2 Mark)

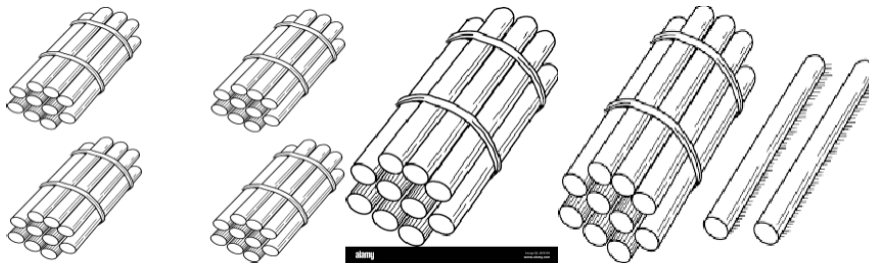
Q3). In a seminar, the number of participants in Mathematics, Physics and Chemistry are 60, 96 and 144 respectively. In each room, the same number of participants are to be seated and all of them are to be in the same subject

- a) Find the HCF of 60 and 96?
- b) What is the HCF of 60, 96 and 144?
- c) Find the number of rooms required for Mathematics, Physics and Chemistry participants separately.

Q4). 1729 is known as the Ramanujan number.

- (a) Find the prime factors of 1729?
- (b) Arrange the prime factors of 1729 in ascending order.
- (c) Find HCF of 1729 and 19?

Q5). Shikha is in class 6. She has 40 pencils. She gave 10 pencils to her brother Raj and 12 pencils to her sister Ria. She gave remaining pencils to her mother.



SHIKHA

RAJ

RIA

- a). What fraction of pencils did she give to

Raj?b). What fraction of pencils did she give to Ria?

c). Find the total fraction of pencils Raj and Ria has altogether?

Q6) Rafiq and Lalit are friends. They were feeling bore and thought of reading a book. They randomly picked a Story book from the shelf and started reading. Rafiq read 40 pages of a book containing 100 pages. Lalit read 25 pages of the same book.



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- a). What fraction of the book did Rafiq read?
- b). What fraction of book did Lalit read?
- c). Who read more? By what fraction?