# LaPIS Diagnostic Test Workbook - Mathematics

Name : Hemnathkumar R N

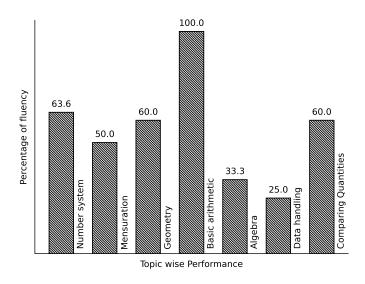
Class : 7

Section : B

School : AKV Public School

Login ID : AKV139

# Hemnathkumar R N's Performance Report



Score: 22/40 Percentage: 55.0%

# Hemnathkumar R N's Study Planner

Date	Topics Planned	Q. Numbers	Teacher Remark	Teacher Sign	Parent Sign
		Teacher's Fe	edback to Student		
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	Class Teacher S	Signature	Princi	ipal Signature	

# Mensuration

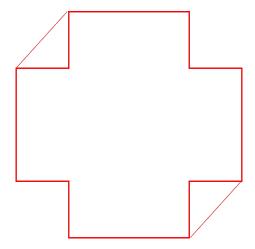
Topics to be Improved		
Perimeter	Perimeter of triangle	

Hi, here in this video you will learn **Perimeter** 



Question: 1

Highlight the perimeter in the given image.

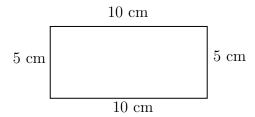


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Perimeter is the \_\_\_\_\_ ( outer / inner) boundary of the shape

Question: 2

Find the perimeter of the given figure.



#### Answer:

Sides of the given shape = \_\_\_\_\_

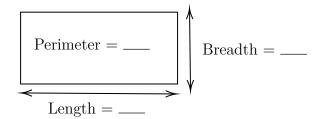
Perimeter of a shape is \_\_\_\_\_ ( sum / difference) of \_\_\_\_\_ (all/ opposite) sides.

Perimeter of the given shape = \_\_\_\_\_

Question: 3 ......

Find the length of the rectangular floor if its perimeter is 60 ft and breadth is 3 ft.

## Answer:



Shape of the floor is \_\_\_\_\_ and its perimeter formula is \_\_\_\_\_. Given:

floor perimeter = 
$$\_\_\_$$
, and breadth =  $\_\_\_$ .  
Perimeter of the floor =  $2(\_\_\_+ \_\_\_)$ .

Therefore, length of the rectangular floor is \_\_\_\_\_\_.

# Data handling

Topics to be Improved		
Arithmetic mean, mode and median	Mean, Median and Mode	
Range	Finding the range	
Chance of probability	Basis of probability	

Hi, here in this video you will learn Mean, Median, Mode



Question: 4	
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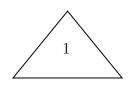
Find the mode of the following data: 5, 15, 23, 5, 32, 44, 72, 55, 6, 3, 5, 65, 45, 67, 24, 19 and 98.

## Answer:

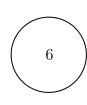
Mode is the number that occurs	(frequently / rarely) in a given list of observations.
Arranging the data in ascending order:	
occurs most number of times.	Γhen, mode of the given data is

## 

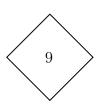
Which shape contains median of the given data 3, 5, 6, 2, 7, 9, 6, 4 and 1







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#### Answer:

Median is the \_\_\_\_\_\_(first/central/last) value of a data when the data is arranged in ascending or descending order.

Arrange the given data in ascending order: \_\_\_\_\_\_ and it is the \_\_\_\_\_\_ of a data.

Question: 6

Marks scored	100	90	80	70
Number of students	$oxed{4}$	5	2	1

 $Mean = \underline{\hspace{1cm}}$ ,  $Median = \underline{\hspace{1cm}}$  and  $Mode = \underline{\hspace{1cm}}$ . Answer: of all observation Mean = number of observation Here s sum of all observation = \_\_\_\_\_\_, number of observation = \_\_\_\_\_\_ Therefore, mean = \_\_\_\_\_ Arrange the data in ascending order: \_\_\_\_\_\_ Here,  $median = \underline{\hspace{1cm}}$ ,  $mode = \underline{\hspace{1cm}}$ . Hi, here in this video you will learn Range ..... Question: 7 Range of the data = \_\_\_\_\_\_\_ - \_\_\_\_\_\_ Answer: The difference between highest value and lowest value is \_\_\_\_\_. Example: Find the range of 10, 5, 30, 23, 54, 39 and 16  $Highest value = \underline{\hspace{1cm}}$ ,  $Lowest value = \underline{\hspace{1cm}}$ .  $Range = ___ - __ = ___.$ ..... Question: 8 Circle the correct range for the following data 31, -20, 35, -38, 29, 0, 43, -25, 51, 14, 9 -20+51  $\frac{-38-51}{2}$  51+38  $\frac{51+20}{2}$ Answer: Arranging the data in ascending order, \_\_\_\_\_ In the given data,  $Highest \ value = \underline{\hspace{1cm}}$ ,  $Lowest \ value = \underline{\hspace{1cm}}$ ,  $Range = \underline{\hspace{1cm}} - \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$ ..... Question: 9 Find the range of first 10 multiple of 5. Answer: First 10 multiple of 5 =Therefore, Highest value = \_\_\_\_\_, Lowest value = \_\_\_\_, Range = \_\_\_\_ - \_\_\_ = \_ Hi, here in this video you will learn Basics of probability Question: 10 ..... Identify the sure events and impossible events

(i) The sun rises in the west.
(ii) Water is colourless.
(iii) Clock rotates in clock wise direction.
(iv) Ball is square in shape.
$\underline{Answer:}$
Events that always occur are called (sure/ impossible) events.  Events that cannot occur are called (sure/ impossible) events.  Here, The sun rises in the west is event. Water is colourless is event.
Clock rotates in clock wise direction is event. Ball is square in shape is event.
Question: 11
Probability of sure events is (greater / smaller) than probability of impossible events
Answer:
Probability of sure event = $\underline{\hspace{1cm}}$ (0/ 1/ any number). Probability of impossible event = $\underline{\hspace{1cm}}$ (0/ 1/ any number). Therefore, Probability of sure event $\underline{\hspace{1cm}}$ Probability of impossible event.
Question: 12
Raju has pencil, an eraser, a scale, sharpener, colour pencil and protractor in his box. What is the probability of getting a pen from his box.
Answer:
Things Raju have (Yes/ No).  Does Raju have pen in his box, (Yes/ No).  Then probability of getting pen from his box is (0/1)

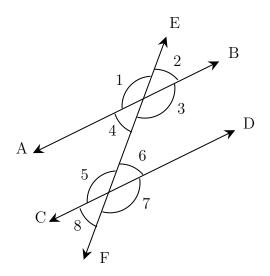
# Geometry

Topics to be Improved		
Transversal angle made by transversal	Basics of Transversal angle	
Sum of lengths of two sides of a triangle	Sum of two sides of a triangle	
Lines of symmetry for regular polygons	Identification of lines of symmetry	
Right angle triangle and pythagoras property	Basics of Pythagoras property	

Hi, here in this video you will learn Basics of Transversal angle



Question: 13



#### Answer:

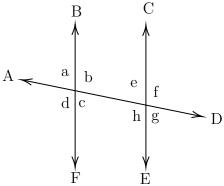
A line that intersects two or more lines at distinct points is called a	(transversal)
Intersecting line).	

Angle that lies on different vertices and on the opposite sides of transversal is \_\_\_\_\_\_ angles.

Angle that lies on different vertices and on the same sides of transversal is \_\_\_\_\_ angles. Therefore,  $\angle 1$  and  $\angle 7$  are \_\_\_\_

Question: 14

Find the transversal, alternate angles and corresponding angles in a given diagram.



### Answer:

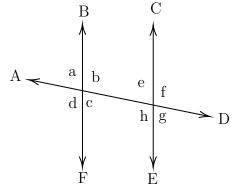
A line that intersects two or more lines at distinct points is called a \_\_\_\_\_ (transversal/Intersecting line).

In a given diagram, \_\_\_\_\_ is a transversal line. (BF/AD/CE)

Alternate angles	Corresponding angles
$\angle a$ and $\angle g$ , $\angle b$ and $\angle h$ ,	$\angle$ a and $\angle$ e, $\angle$ b and $\angle$ f,

# Question: 15 .....

Find  $\angle e$  and  $\angle g$  if  $\angle a = 30^{\circ}$ .



#### Answer:

When parallel lines cut by a transversal,

- (i) Alternate angles are \_\_\_\_\_ (equal / not equal).
- (ii) Corresponding angles are \_\_\_\_\_ (equal / not equal).

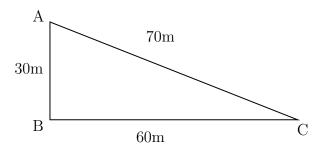
Here, alternate angle of  $\angle a$  is \_\_\_\_\_ and its value is \_\_\_\_. Corresponding angle of  $\angle a$  is \_\_\_\_\_ and its value is \_\_\_\_\_.

# Hi, here in this video you will learn Sum of the length of sides of the triangle



Question: 16

Find the greatest distance to reach C from A in the given diagram.



Answer:

The sides of the given triangle are \_\_\_\_\_

The possible way to reach point C from point A are \_\_\_\_\_ and AB then to

Side AC = \_\_\_\_\_

Side AB + BC = \_\_\_\_\_ + \_\_\_ = \_\_\_\_

Therefore, the greatest distance to reach C from A in the given diagram is \_\_\_\_\_\_.

Question: 17

\_\_\_\_\_ (Sum of / Difference between) the length of any two sides of a triangle is smaller than the length of the third side.

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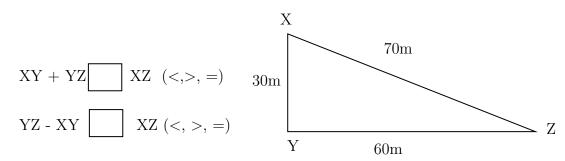
Answer:

There are \_\_\_\_\_\_ sides in a triangle.

The sum of the two sides of a triangle is \_\_\_\_\_\_ than the other side of the triangle.

The difference of the two sides of a triangle is \_\_\_\_\_\_ than the other side of the triangle.

Example: In triangle XYZ,



Question: 18

The lengths of two sides of a triangle are 7 cm and 10 cm. Between which two numbers can length of the third side fall?

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Answer:

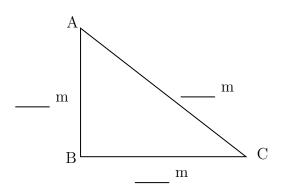
1. The sum of the two sides of a triangle is  Therefore, the third side should be	
Here, sum of the two sides = +	· · · ·
Therefore, the length of the third side is less than .	
2. The difference of the two sides of a triangle is triangle.	than the third side of the
Therefore, the third side should be Here, difference of the two sides =	,
Therefore, the length of the third side is greater th	
Therefore, length of the third side is greater than	but less than
Hi, here in this video you will learn <b>Symmert</b>	y = 1
Question: 19	
Line of symmetry is divides any shape into (one identical) halves.	/ two) (identical / non
$\underline{Answer:}$	
Lines of symmetry is a line that divides any shape into _Symmetrical image have (identical / nor Therefore, line of symmetry is dividing the shape into	n identical) parts.
Question: 20	
How many lines of symmetry does square have?	
Answer:	
Square have sides.	
All sides of square are and all angles are	
Mark the lines of symr	netry.
Therefore, square has lines of symmetry.	
Question: 21	
Classify the following based on the symmetry.	

Letter S, scalene triangle, Letter K, Rhombus, Number 8, and circle .

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Lines of symmetry is a line that divides the shape into The letter S is (symmetrical / asymmetrical) and h	
symmetry.	
Scalene triangle is(symmetrical / asymmetrical) and	d havelines of
symmetry.	
The letter K is (symmetrical / asymmetrical) and h	nave lines of
symmetry.	
Rhombus is(symmetrical / asymmetrical) and have	lines of
symmetry.	
Cat is (symmetrical / asymmetrical) and have	lines of symmetry.
Stars is (symmetrical / asymmetrical) and have	lines of symmetry.
Question: 22  In a right angled triangle, square of thelegs.	
Answer:	
Pythagoras theorem is only applicable for triangle.  Longest side of the triangle is (hypotenuse/ legs) ar (hypotenuse/ legs).	nd other two sides are called
Pythagoras theorem states that	
Question: 23	
Find the hypotenuse of the triangle ABC if base is 12 m and altitude	de is 5 m.

 $\underline{Answer:}$ 



Pythagoras theorem states that square	e of the = sum of the squares of its
$\overline{Given: Base} = \underline{\qquad}$ , Altitude = $\underline{\qquad}$	<del></del>
Base and altitude are	(hypotenuse/ legs) of the triangle.

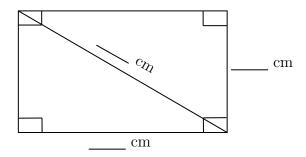
By Pythagoras theorem, 
$$(____)^2 = (___)^2 + (___)^2$$
  
 $= __ + ___$ 

Therefore, hypotenuse of the triangle is \_\_\_\_\_.

Question: 24

Find the length of the rectangle, if breadth is 3 cm and diagonal is 5 cm.

Answer:



Pythagoras theorem states that square on the  $\underline{\hspace{1cm}}$  = sum of the squares on

Is Pythagoras theorem applicable in rectangle? \_\_\_\_ ( yes/ no).

Given: breadth = \_\_\_\_\_, length of diagonal = \_\_\_\_\_

By Pythagoras theorem,  $(____)^2 = (___)^2 + (___)^2$  $= __ + ___$ 

Therefore, diagonal of the rectangle is \_\_\_\_\_

# Number system

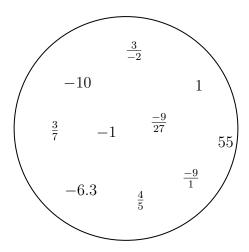
Topics to be Improved						
Positive and negative rational numbers	Identification of positive rational numbers					
Fractions	Division of fraction					
Exponents	Solving exponents					
Operations on rational numbers	Subtraction of rational numbers					

Hi, here in this video you will learn **Positive and Negative rational numbers** 



Question: 25

Segregate positive and negative rational number.



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#### Answer:

- If either the numerator and the denominator of a rational number are negative, then it is \_\_\_\_\_\_ (positive/negative) rational number.

In the given circle, positive rational numbers are \_\_\_\_\_ and negative rational numbers are

Question: 26 .....

 $\frac{-3}{-4}$  is a \_\_\_\_\_ (positive /negative / neither positive nor negative) rational number.

## Answer:

-3 is a \_\_\_\_\_ number, -4 is a \_\_\_\_ number.

Division of  $\frac{-3}{-4} = \square$  and this \_\_\_\_\_ rational number.

(Positive / Negative / Neither positive nor negative rational number)

# Question: 27

The product of a positive rational number and a negative rational number is \_\_\_\_\_\_ rational number. (Positive/ Negative/ neither positive nor negative)

## Answer:

Examples for positive rational numbers: \_\_\_\_\_

Examples for negative rational numbers:

Positive rational number  $\times$  Negative rational number = \_\_\_\_  $\times$  \_\_\_ = \_\_\_ and this is \_\_\_\_ rational number

Hi, here in this video you will learn **Division on fractions** 



Question: 28

Find the shape which contains the improper fraction of  $5\frac{2}{7}$ .







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### Answer:

 $5\frac{2}{7}$  is a \_\_\_\_\_ (proper/mixed) fraction.

Here, 5 is \_\_\_\_\_\_, 2 is \_\_\_\_\_ and 7 is \_\_\_\_\_.

To convert mixed fraction into improper fraction,  $\frac{\text{(Whole} \times \underline{\hspace{1cm}}) + \text{Numerator}}{\text{Denominator}}$ 

$$5\frac{2}{7} = \frac{( --- \times --- ) + ---- }{7} = \frac{\square}{\square}$$

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Question: 29

Solve:  $\frac{1}{3} \div \frac{14}{3}$ 

# Answer:

To divide a fraction by another fraction, multiply the dividend by  $\_\_\_$  ( same / reciprocal) of the divisor. Here, dividend =  $\_\_\_$  and divisor =  $\_\_\_$ .

1	_	14	=	1	×		=	
3	•	3		3	^	$\Box$		

Question:	30	
a account.	00	

Find the half of the fraction  $\frac{12}{40}$ .

## Answer:

To find half of a number, divide the number by \_\_\_\_\_

$$\frac{12}{40} \div \underline{\hspace{1cm}} = \frac{12}{40} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

Then the answer is \_\_\_\_\_

# Hi, here in this video you will learn Exponents and power



#### Question: 31

Find the exponential form of 1000.

#### Answer:

\_\_\_\_\_ (Exponents/Base) tells us how many times a number should be multiplied by itself to get the desired result.

Exponents is also called as \_\_\_\_\_ (Base / Power).

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1000 can be written as =  $10 \times$  \_\_\_\_  $\times$  \_\_\_\_ 10 is raised to the power of \_\_\_\_ = (10)

# Question: 32

Find the value of  $(-2)^3$ .

#### Answer:

\_\_\_\_\_ (Exponents/Base) tells us how many times a number should be multiplied by itself to get the desired result.

In this exponential form 
$$(-2)^3$$
, base = \_\_\_\_, power = \_\_\_\_.  
 $(-2)^3$  = \_\_\_\_ × \_\_\_ = \_\_\_.

Question: 33 .....

- (i) Tenth power of 100 is  $((10)^{100})$  or  $(100)^{10}$ ).
- (ii) k is raised to the power of 5 is  $((k)^5)$  or  $(5)^k$ .

## Answer:

Exponential form = (Base)—

- (i) Tenth power of 100: Base = \_\_\_\_, Power/Exponents = \_\_\_\_, exponential form = \_\_\_\_.
- (ii) k is raised to the power of 5: Base = \_\_\_\_, Power/Exponent = \_\_\_\_, exponential form = \_\_\_\_.

Hi, here in this video you will learn **Operation on rational num**bers



Question: 34

Solve:  $\frac{-3}{3} + \frac{1}{3}$ 

# Answer:

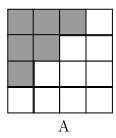
Fractions with same denominators are called \_\_\_\_\_ (like/unlike) fractions. Fraction can be added only if they are \_\_\_\_\_(like/unlike) fractions.

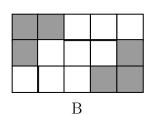
$$\frac{-3}{3} + \frac{1}{3} = \frac{-3}{3} = \frac{-3}{3}$$

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Question: 35

Find the addition of shaded part of box A and shaded part of box B.





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# Answer:

Total number of square in box  $A = \underline{\hspace{1cm}}$ .

Number of shaded square in box  $A = \underline{\hspace{1cm}}$ 

Shaded part of box A in fraction = \_\_\_\_\_

Total number of square in box  $B = \underline{\hspace{1cm}}$ .

Number of shaded square in box  $B = \underline{\hspace{1cm}}$ 

Shaded part of box B in fraction = \_\_\_\_\_.

Shaded part of box A + Shaded part of box B =  $\_\_\_$  +  $\_\_\_$  =  $\_\_\_$ 

Question: 36 .....

Find the missing values in the given figure.

$$= \begin{array}{c} \\ \\ \\ \\ \\ \end{array}$$

Answer:

One litre = 
$$\underline{\hspace{1cm}}$$
 ml  $\frac{7}{10}$  of one liter =  $\frac{7}{10}$  x  $\underline{\hspace{1cm}}$  ml =  $\underline{\hspace{1cm}}$  ml

Given: 
$$1 = \frac{7}{10} +$$
\_\_\_\_  
Transposing  $\frac{7}{10}$  to other sides,  $1$  \_\_\_\_ $\frac{7}{10} =$ \_\_\_\_  
Therefore, result is \_\_\_\_\_.

# Comparing Quantities

Topics to be Improved				
Percentage	Basic of percentage			
Equivalent ratios	Basic of proportion			

Hi,	here in	this	video	you	will	$\operatorname{learn}$	Basics	$\mathbf{of}$	percentage
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Question: 37

2% can be written as

# Answer:

Percentages are numerators of fractions with denominator\_\_\_\_\_

$$2\% = \frac{\square}{\square}$$

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 $Question:\ 38$ 

Arun attended the LaPIS test for 100 marks and got 75% marks. What is the mark scored by Arun?

#### Answer:

Arun attended LaPIS test for \_\_\_\_\_ marks. He got \_\_\_\_ marks.

75 % can be written in fraction form

Then the mark scored by Arun = Total mark  $\times$  75% = \_\_\_\_  $\times$  \_\_\_ = \_\_\_\_

# Question: 39

There are 25 apples in a basket in which 10 of them are rotten. Find the percentage of rotten apples.

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## Answer:

There are \_\_\_\_\_ apples in a basket.

Number of rotten apples are \_\_\_\_\_.

Fraction form of rotten apples in a basket						
Convert it into a percent= x	% = _					
Hi, here in this video you will learn	1 Basics	of prop	ortio	n		
Question: 40						
If a:b and c:d are equivalent ratio, then it of	ean be expr	ressed as _				
Answer:						
A (proportion / ratio) is used to extended form to express proportion is	-	( one/	two) e	quival	ent rati	los.
Question: 41						
Find the ratio of shaded part to unshaded	part of A a	and B. Are	the tw	o ratio	os equiv	valent?
A						
11			В			
Answer:						
Answer: Shaded part of $A = \underline{\hspace{1cm}}$ , Unshaded part	$rt of A = _{-}$					
Ratio of shaded to unshaded parts of A is .	Fr	ractional for	orm =		<b></b> •	
Shaded part of $B = \underline{\hspace{1cm}}$ , Unshaded part of $B = \underline{\hspace{1cm}}$ .						
Ratio of shaded to unshaded parts of B is .	·					
Fractional form =	1)	C	. C D			
Fraction form of A ( equal/ not eq	uai) to Fra	ction form	OI B.			
Question: 42						
If a: b:: c: d is proportion, shade the cor	rect expres	ssion				
	7					
$\begin{vmatrix} a = \frac{bc}{d} \end{vmatrix} \begin{vmatrix} c = \frac{ad}{b} \end{vmatrix} $ ad=cd						

## $\underline{Answer:}$

Two equivalent ratio which are proportion, it can be written as a : b :: c : d or \_\_\_\_ = \_\_\_ (in fraction) . First and fourth term are called \_\_\_\_ and second and third term are called \_\_\_\_. In proportion, product of extreme terms is \_\_\_\_ ( equal to/ not equal to) product of middle terms. Therefore, a  $\times$  d = \_\_\_\_, then a = \_\_\_ and c = \_\_\_\_,

# Algebra

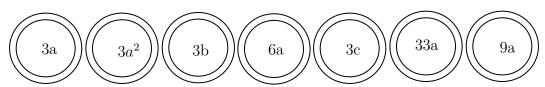
Topics to be Improved					
Addition and subtraction of algebraic expressions	Like terms and Unlike terms				
subtraction of algebraic expressions	subtraction of algebraic expressions				
Monomials, binomials, trinomials and polynomials	Types of algebraic expression				
Basics of simple equation	Solving of simple equation				

Hi, here in this video you will learn Addition on expression



Question: 43

Shade the like terms.



#### Answer:

Given terms are \_\_\_\_\_\_

Two or more term have \_\_\_\_\_ ( same/ different) variables is called like terms.

Here, like terms are \_\_\_\_\_

#### Question: 44

Complete the expression  $7r^2 + r \Box - 2 \Box = \underline{\phantom{a}} r^2$ 

#### Answer:

\_\_\_\_\_ (Like / Unlike) terms can be added or subtracted.

$$_{7r^2+ r} \square_{-2} \square = (_{7} + \underline{ } - 2)_{r^2} = \underline{ }$$

#### Question: 45

Sam have 3a chocolates and 9y icecream. Ram have 7a chocolates and 5y icecream.

(i) Total chocolates Ram and Sam have:	(i	(	i)	Total	chocolates	Ram	and	Sam	have	:	
--	----	---	----	-------	------------	-----	-----	-----	------	---	--

(ii	) How	many	icecreams	Sam	have	more	than	Ram	:		
-----	-------	------	-----------	-----	------	------	------	-----	---	--	--

#### Answer:

	Chocolates	Icecream
Sam		
Ram		

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(i)	Total chocolates Ram and Sam have:	
	$Ram's chocolate + Sam's chocolates = \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$	_ =

	_ 001 10 0_	 ~ 1	10 01	 		
\				_		

(ii)	How many	icecreams Sam	have more	than Ram:		
		icecrea	am	$_{\rm icecream} = 1$	 	=

Hi, here in this video you will learn Subtraction on expression



Question:	46
a account	40

Find the sum of two expressions a + b + c and b + c + d

## Answer:

The given	two expressions are	and
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The sum of two expressions 
$$=$$
  $\underline{\hspace{1cm}}$   $+$   $\underline{\hspace{1cm}}$ .

The answer is \_\_\_\_\_

# Question: 47 .....

	School A	School B
Number of boys	100b	250b
Number of girls	150g	200g
Number of teachers	25t	45t

(i)	Total	$\operatorname{number}$	of	boys	in	school	Α	and	В	is	
(-)									_		

(iii)	How many	more teache	s are there in	school B tha	an school A? _	
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# Answer:

(i) Number of boys in school  $A = \underline{\hspace{1cm}}$ ,

Number of boys in school  $B = \underline{\hspace{1cm}}$ 

Total number of boys in school A and school B is \_\_\_\_\_ + \_\_\_ = \_\_\_\_.

(ii) Number of boys in school  $B = \underline{\hspace{1cm}}$ ,

Number of girls in school  $B = \underline{\hspace{1cm}}$ .

Total number of students in school B is  $\_\_\_$  +  $\_\_\_$  =  $\_\_$ .

(iii) Number of teachers more in school B than school A = Teachers in school B - Teachers in school A =  $\_\_\_$ .

Question: 48 .....

Solve the following:

Answer:

The two terms will get added only if they are \_\_\_\_\_ (like/unlike) terms.

$$\begin{array}{c|c}
13x + \underline{\hspace{1cm}} \\
(+) & 12x + 10y \\
\underline{\hspace{1cm}} + 25y
\end{array}$$

$$\begin{array}{r}
 3a - 5b \\
 \hline
 (-) \quad 5a - 7b \\
 \hline
 -2a - \underline{\hspace{1cm}}
 \end{array}$$

.....

 $\operatorname{Hi}$ , here in this video you will learn  $\operatorname{\mathbf{Types}}$  of  $\operatorname{\mathbf{expression}}$ 



Question: 49

There are \_\_\_\_\_ terms in the expression 7x + 3y + m + 5.

Answer:

In algebraic expression, \_\_\_\_\_ (variables/ terms) are connected together with operations of addition.

The terms in the expression are \_\_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_\_.

Therefore, there are \_\_\_\_\_\_ terms in the expression.

Question: 50

Classify the following expression into monomial, binomial and polynomial.

1. 
$$7m + n + 2$$

2. 
$$8x^2 + 0$$

3. 7xy + 4m

## Answer:

1. The terms in expression  $8x^2 + 0$  are \_\_\_\_\_. Here, expression has \_\_\_\_\_ term and it is a \_\_\_\_\_.

2. The terms in expression 7xy + 4m are \_\_\_\_\_. Here, expression has \_\_\_\_\_ term and it is a \_\_\_\_\_.

3. The terms in expression 7m + n + 2 are \_\_\_\_\_. Here, expression has \_\_\_\_ term and it is a \_\_\_\_\_.

# Question: 51

 $5m^2 + m + 0$  is a \_\_\_\_\_\_ expression. (Monomial/ Binomial/ Trinomial)

#### Answer:

The terms in expression  $5m^2 + m + 0$  are \_\_\_\_\_.

Here, the expression has \_\_\_\_\_\_ terms and it is called a \_\_\_\_\_ expression.

.....

Hi, here in this video you will learn Solving an equation



Question: 52

If ©=5, then 5 © +5 =

#### Answer:

The value of the given smiley © is \_\_\_\_\_.

Substituting the value in the expression  $= 5(\underline{\hspace{1cm}}) + 5 = \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$ .

Question: 53

Which of the following number can be placed in the box to make the equation correct (-2, -1, 0, 1, 2)

.....

.....

7 + 3 = -4

#### Answer:

The given equation is  $7 \pm 3 = -4$  Substitute the values (-2, -1, 0, 1, 2) in the circle,

$$7 \times \underline{\hspace{1cm}} + 3 = \underline{\hspace{1cm}}$$

Therefore, \_\_\_\_\_ is the number that can be placed in a box to make the equation correct.

 $\underline{Question: 54}$ 

Arrange the terms in the descending order when the value of x is 2. 2x  $5x \times 1$  x + 3 2x - 4  $\frac{1}{2}x$ 

#### Answer:

The given expression are \_\_\_\_\_.

The value of x is \_\_\_\_\_.

substituting value of x

$$2x = 2 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} 2x - 4 = 2 \times \underline{\hspace{1cm}} - 4 = \underline{\hspace{1cm}}$$
 $x + 3 = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$ 
 $5x \times 1 = 5 \times \underline{\hspace{1cm}} \times 1 = \underline{\hspace{1cm}}$ 

Arranging in descending order: \_\_\_\_, \_\_\_\_, \_\_\_\_, \_\_\_\_, \_\_\_\_.
Their respective algebraic terms are \_\_\_\_, \_\_\_\_, \_\_\_\_, \_\_\_\_, \_\_\_\_.