LaPIS Diagnostic Test Workbook - Mathematics

Name : Cithick S A

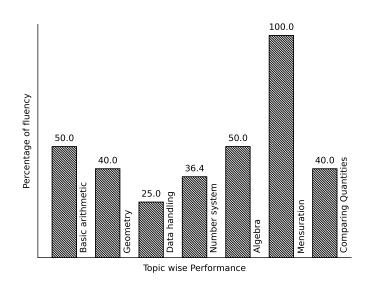
Class : 7

Section : C

School : AKV Public School

Login ID : AKV168

Cithick S A's Performance Report



Score: 17/40 Percentage: 42.5%

Cithick S A's Study Planner

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

Basic arithmetic

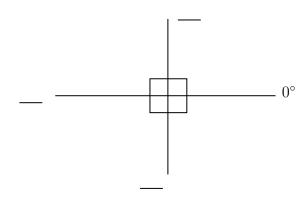
Topics to be Improved		
Types of angles	Identification of types of angles	

Hi, here in this video you will learn Types of Angles



Question: 1

Find the angles.



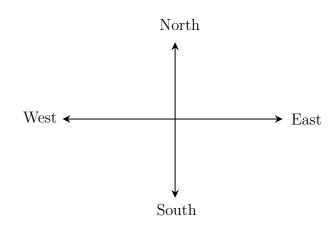
Answer:

The angle ranges from $___{\circ}$ to $___{\circ}$.

The angle perpendicular to 0° is ____°.

The straight line measures $__$ °.

Question: 2



The angle formed between the directions

(i) West and East is _____ angle.

(ii) North and East is angle.
(iii) East and South is angle.
Answer:
The angle formed between West and East is° and it is called angle.
The angle formed between North and East is° and it is called angle.
The angle formed between East and South is° and it is called angle.
$\underline{\textit{Question: 3}}$
The addition of straight angle and right angle is angle.
Answer:
The measurement of straight angle is°
The measurement of right angle is°.
Straight angle + Right angle = + = =
It is called as angle.

Data handling

Topics to be Improved		
Range Finding the range		
Chance of probability	Sample space in probability, Basis of probability	

Hi,	here	in	this	video	vou	will	learn	Range
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Question:	1.
$\mathbf{q}ucsuutu.$	4

Answer:

The difference between highest value and lowest value is _____

Example: Find the range of 10, 5, 30, 23, 54, 39 and 16

 $Highest value = \underline{\hspace{1cm}}, Lowest value = \underline{\hspace{1cm}}.$

 $Range = \underline{\hspace{1cm}} - \underline{\hspace{1cm}} = \underline{\hspace{1cm}}.$

Question: 5

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

$$51 + 38$$

.....

.....

.....

......

$$\frac{51+20}{2}$$

Answer:

 $Range = _$

Arranging the data in ascending order, _____

In the given data,

 $Highest \ value = \underline{\hspace{1cm}}$, $Lowest \ value = \underline{\hspace{1cm}}$, $Range = \underline{\hspace{1cm}}$

Question: 6

Find the range of first 10 multiple of 5.

Answer:

First 10 multiple of 5 =

Therefore,

 $Highest \ value = \underline{\hspace{1cm}}$, $Lowest \ value = \underline{\hspace{1cm}}$, $Range = \underline{\hspace{1cm}}$

Hi, here in this video you will learn Basics of probability



Question: 7

Which of the following contains list of all possible outcomes.

Probability

Sample space

Sure events

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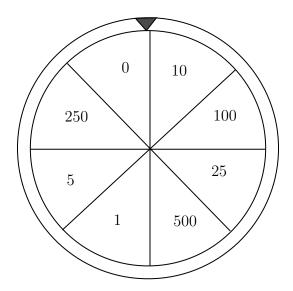
Impossible events

1	nswer:	
71	nower.	

Probability is the measure	of (chance /number) of an events happenings.
Sample space consists of $_$	(possible/ impossible) outcomes.
Sure events always	(occurs/don't occurs).
Impossible events	(occurs/ don't occurs).
Therefore,	contains list of possible outcomes.

Question: 8

Write the possible outcomes while spinning the given wheel.



4				
4	n	e1	 er	•

Outcomes are (possible/in The possible outcomes while spinning who	- /	_
Question: 9		
A bag contains three balss of colour blue, are taken out.	green and red. Write	e the possible outcomes if two balls
Answer:		
A bag contains,	and	balls.
If one of the ball is blue in colour, then of	ther ball can be	or
If one of the ball is green in colour, then of	other ball can be	or
If one of the ball is red in colour, then oth	her ball can be	or
Therefore if two balls are taken out then	possible outcomes are	e blue +

. . .

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.
$\underline{Answer:}$
Probability of sure event = $___(0/1/\text{ any number})$. Probability of impossible event = $___(0/1/\text{ any number})$. Therefore, Probability of sure event $___$ 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.
$\underline{Answer:}$
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				
Angle sum property of triangle	Angle sum property of triangle			
Sum of lengths of two sides of a triangle	Sum of two sides of a triangle			
Transversal angle made by transversal	Basics of Transversal angle			
Faces vertex and edges	Idenfication of faces, edges and vertices			
Right angle triangle and pythagoras property	Basics of Pythagoras property			
Criteria for congruence of triangle	Idenfication of criteria of congruence of triangles			

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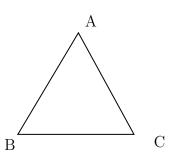
Hi, here in this video you will learn Angle sum property



Question: 13

Sum of the angles of triangle is _____.

Answer:



$$\angle A + \angle B + \angle C = \underline{\hspace{1cm}}$$

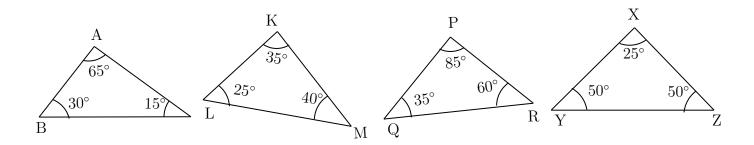
Angle sum formula = $(n-2) \times 180^{\circ}$, n = number of sides

Triangle has _____ sides.

Question: 14

Which of the following triangle satisfy the angle sum property.

.....



.....

Answer:

Angle sum property of triangle: sum of the angles of a triangle is _______ In $\triangle ABC$, Sum of the angles = $\angle A + \angle B + \angle C =$ _____ = _____ = _____ In $\triangle PQR$, Sum of the angles = _____ = ____ = ____ = ____ In $\triangle XYZ$, Sum of the angles = _____ = ____ = ____ = ____ = ____ = ____ Therefore, the triangles that satisfy the angle sum property are = ______

Question: 15

Find the angles of triangle, if their angles are in the ratio 8:6:4.

Answer:

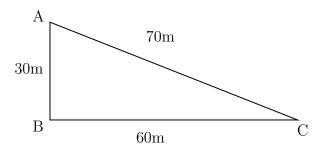
Ratio of angles in the triangle is ______ Let's consider the angles of triangle be 8x, ____ and ____ We know sum of the angles of a triangle is ____ Therefore, $8x + _{---} + _{---} = 180^{\circ}$. The value of $x = _{----}$ The angles of the triangle are _____

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

 $Side AC = \underline{\hspace{1cm}}$

Side $AB + BC = \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

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.

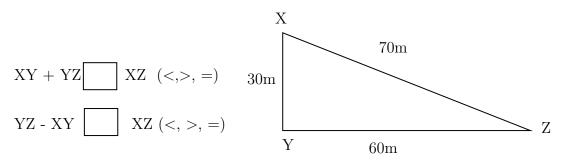
Answer:

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?

Answer:

- 1. The sum of the two sides of a triangle is ______ than the third side of the triangle. Therefore, the third side should be _____ (less/ greater) than sum of other two sides. 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 ______ than the third side of the triangle.

 Therefore, the third side should be ______ (less/ greater) than sum of other two sides.

 Here, difference of the two sides = _____ ___ = _____

 Therefore, the length of the third side is greater than ______

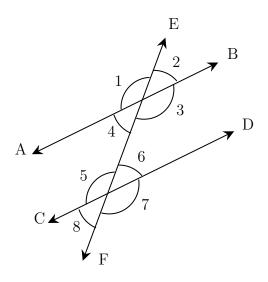
Therefore, length of the third side is greater than ______ but less than _____

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



Question: 19

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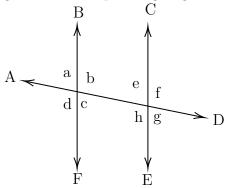
A line that intersects two or more lines at distinct points is called a _____ (transversal/Intersecting line).

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: 20

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



Answer:

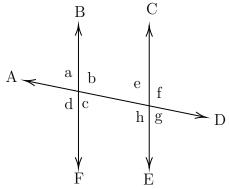
A line that intersects two or more lines at distinct points is called a _____ (transversal/Intersecting line).

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: 21

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 $\operatorname{\mathbf{Basics}}$ of $\operatorname{\mathbf{3D}}$ $\operatorname{\mathbf{model}}$



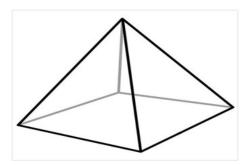
Question: 22

A point at which two or more lines segments meet is called _____(Vertex/ edges/ faces).

Answer:

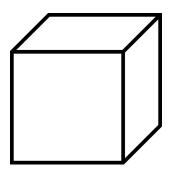
has two end point (line/line segment/ray).

A ______is a point where two or more line segments meet(Vertex/ edges/ faces). Mark the vertices in the diagram,

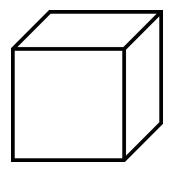


 $\underline{Question:~23}$

Mark and find the number of vertices, edges and faces in a cube.



Mark the vertex, edges and faces in a cube.



	of vertex, edges and faces in a cube. vertices, edges and faces.
$\underline{Question:~24}$	
How many vertices,	edges and faces does dices have?

Answer: The shape of dice is ______. Dices have _____ vertices, _____ edges and ______ faces. Hi, here in this video you will learn Pythagoras property Question: 25

In a right angled triangle, square of the _____ = sum of the squares of the legs.

Answer:

Pythagoras theorem is only applicable for _____ triangle.

Longest side of the triangle is _____ (hypotenuse/ legs) and other two sides are called _____(hypotenuse/ legs).

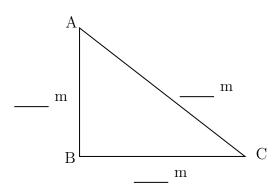
Pythagoras theorem states that _____

......

Question: 26

Find the hypotenuse of the triangle ABC if base is 12 m and altitude is 5 m.

Answer:



Pythagoras theorem states that square of the _____ = sum of the squares of its

 $Given: Base = \underline{\hspace{1cm}}, Altitude = \underline{\hspace{1cm}},$

Base and altitude are _____ (hypotenuse/ legs) of the triangle.

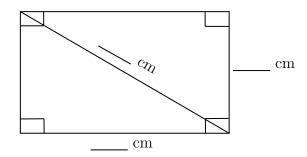
By Pythagoras theorem,
$$(____)^2 = (____)^2 + (____)^2$$

Therefore, hypotenuse of the triangle is _____.

Question: 27

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

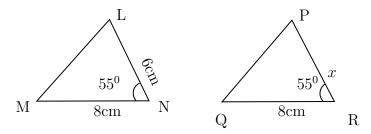
Answer:



Pythagoras theore	em states th	nat square on the	= sum of the s	squares on
		cable in rectangle?, length of diagona		
	By Pythag		$(2)^2 = (\underline{})^2 + (\underline{})^2 = (\underline{})^2 + (\phantom{0$) ²
Therefore, diagon	al of the rec	ctangle is		EN BANKE
Hi, here in th	is video y	ou will learn Crite :	ria of congruence	
Question:~28				
Circle the groups	that contai	n congruent images.		
Answer:				
(identical/non-ide	entical) in sl		they are	nt).
Question: 29				
		gle are equal to the cor	responding sides of the or (ASA/SAS) criteria .	ther triangle, then two
$\underline{Answer:}$				
			ngruent) if they are identi-	
1. In SSS Con	gruence crit		les of the triangle are	
			es and (o the included angle of the	
			ngles andangles and the included s	
	SSS	sides and	angles are equal	
	SAS	sides and	angles are equal	
	ASA	sides and	angles are equal	

Question: 30

The triangles LNM and PRQ are congruent by SAS criteria. Then find the side PR



Answer:

The given two triangles satisfy ______ criteria of congruence. By SAS congruence criteria, MN = _____, ___ and $\angle N$ = _____ The side MN=8 cm in ΔLNM is equal to the side _____ in ΔPRQ The common included angle in Δ LNM and ΔPRQ are _____ The side PR is equal to the side in _____ ΔLNM . Therefore, length of side PR = _____

Number system

Topics to be Improved		
Operations on rational numbers Subtraction of rational numbers		
Decimals Multiplication and division of decimals		
Positive and negative rational numbers Identification of positive rational numbers		
Fractions Multiplication of fractions, Division of fraction		
Integers	Basics of integers	
Introduction to rational numbers	Basics of rational numbers	

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



Question: 31

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

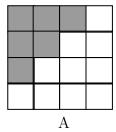
Answer:

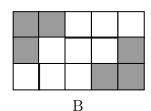
Fractions with same denominators are called ______ (like/ unlike) fractions. Fraction can be added only if they are ______ (like/ unlike) fractions.

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

Question: 32

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





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 = $\underline{\hspace{1cm}}$
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 = $\underline{\hspace{1cm}}$.
Shaded part of box A + Shaded part of box B = $___$ + $___$ = $___$
Question: 33
Find the missing values in the given figure.
$= + $ $1L \qquad (700 \text{ ml}) \frac{7}{10} \qquad (_\text{ml})$
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: $1 = \frac{7}{10} + \underline{\hspace{1cm}}$ Transposing $\frac{7}{10}$ to other sides, $1 = \underline{\hspace{1cm}}$ Therefore, result is $\underline{\hspace{1cm}}$
Hi, here in this video you will learn Basics of decimals
Question: 34
Shade 0.4 part of the given shape.
Answer:
There are boxes. 0.4 can be expressed as in fraction
This fraction represents parts out ofequal parts. So, we need to shade boxes out ofboxes.
Question: 35
Solve the following.

- (i) 0.4×1.2
- (ii) 0.48×1.2

(i)	0.4×1.2 :
	Multiplication of 0.4×1.2 assuming there is no decimal point is
	The number of digits after decimal point in 0.4 is and 1.2 is
	Total digits after decimal point in the product of two numbers is
	Count that digits from the right towards left and place the decimal point, the result is
	.
(ii)	0.48×1.2 :
	Multiplication of 0.48×1.2 assuming there is no decimal point is
	The number of digits after decimal point in 0.48 is and 1.2 is
	Total digits after decimal point in the product of two numbers is

Question: 36

Count that digits from the right towards left and place the decimal point, the result is

One box of chocolate costs Rs.20.10. What is the cost of 15 chocolates, if a box contains 10 chocolates?

Answer:

One box contains _____ chocolates. The cost of one box is ____ Then cost of one chocolate = ____ \div ___ = ___

- (i) Total digits after decimal point in decimal number = _____
- (ii) Divide the two numbers assuming there is no decimal point.

$$\frac{2010}{15} =$$

(iii) Place the decimal point after _____ digits counting from the right in the quotient after division.

Then the cost of one chocolate is $___$.

The cost of 15 chocolates = cost of one chocolate \times ____ = ___ x ___ = ___

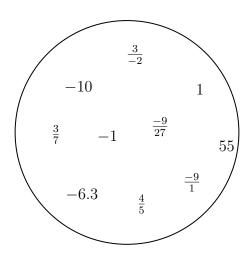
Hi, here in this video you will learn **Positive and Negative rational numbers**



Question: 37

Segregate positive and negative rational number.

.....



•	If both the numerator and the denominator of a rational number are
	(positive/negative), then it is positive rational number.

•	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: 38

 $\frac{-3}{-4}$ 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: 39

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 Multiplication on fractions



Question: 40

Fill the boxes

$$2 + 4 + \frac{6}{2} = \frac{2}{\Box} + \frac{4}{\Box} + \frac{3}{\Box} = \frac{\Box}{\Box} = 9$$

The whole number can be expressed in fraction with denominator equal to _____ (zero/one). Therefore, 2 can be written as _____ in fraction.

4 can be written as _____ in fraction.

$$2 + 4 + \frac{6}{2} = \frac{2}{1} + \frac{4}{\square} + \dots = \frac{2}{1} + \frac{4}{\square} + \frac{3}{\square} = \frac{\square}{\square} = 9$$

Question: 41

There are 400 students in a school. Find the number of girls, if three sixteenth of the students are girls.

......

Answer:

Total number of students = _____

Fraction of students who are girls = _____

Number of girls = \times = = =

Question: 42

Solve: $2\frac{7}{4} \times \frac{2}{3}$

Answer:

 $2\frac{7}{4}$ is a _____ (proper / mixed) fraction. Here, 2 is _____, 7 is ____ and 4 is ____.

To convert mixed fraction into improper fraction, $\frac{\text{(Whole} \times \underline{\hspace{1cm}}) + \text{Numerator}}{\text{Denominator}}$ Improper fraction of $2\frac{7}{4} =$

$$2\frac{7}{4} \times \frac{2}{3} = \boxed{\qquad} \times \frac{2}{3} = \boxed{\qquad}$$

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



Question: 43

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

10 35	$\sqrt{\frac{10}{7}}$ $\left(\frac{37}{7}\right)$	
99		

 $5\frac{2}{7}$ is a _____ (proper/mixed) fraction. Here, 5 is ____ , 2 is ____ and 7 is ____

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

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

.....

.....

.....

Question: 44

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 = $___$.

$$\frac{1}{3} \div \frac{14}{3} = \frac{1}{3} \times \boxed{\square} = \boxed{\square}$$

Question: 45

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

Answer:

To find half of a number, divide the number by _____

$$\frac{12}{40} \div \underline{} = \frac{12}{40} \times \underline{} = \underline{}$$

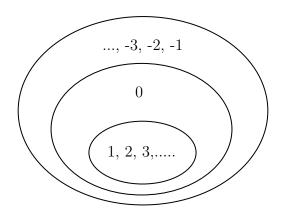
Then the answer is _____

Hi, here in this video you will learn Basics of integers



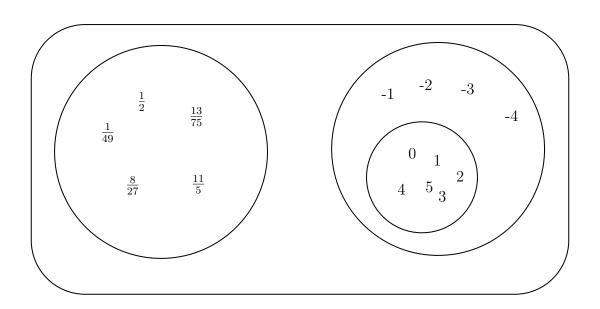
Question: 46

Highlight the ring that contains whole numbers.



A	~	-		_	n	
\boldsymbol{A}	n.	S1	"	е:1	r	۰

21165 W.C.1.
The numbers inside the inner ring $(1, 2, 3, \ldots)$ are numbers. The numbers inside the middle ring are numbers. The numbers inside the outer ring are negative numbers, positive numbers and zero and they are called as
Question: 47
Colour the frame of the box which contains the number 1, 4 and -10
Whole numbers
$\underline{Answer:}$
Whole number consists of $0,1,2,3,4,$ Negative number consists of Natural numbers consists of Integers consists of Now, 1, 4, -10 are in
Question: 48
State whether the statement is true or false. Every positive number is an integer.
Answer:
Positive numbers are Integers consists of Therefore, positive numbers are (in/not in) integers.
Hi, here in this video you will learn Basics of rational numbers
Question:~49
The numbers in the diagram represents



0, 4,5,2,3,1 are _____ numbers.

-1,-2, -3, -4 are _____ numbers.

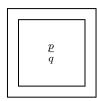
The combination of these circles are called ______.

 $\frac{1}{49}$, $\frac{1}{2}$, $\frac{8}{27}$, $\frac{11}{5}$, $\frac{13}{75}$ are ______.

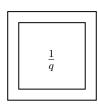
Combination of all three circles are called as _____ numbers.

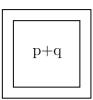
Question: 50

Shade the correct form of rational numbers.











Answer:

Rational number can be expressed as ______, where both numerator and denominator are _____ (integer/ not a integer), denominator is equal to _____ (zero/ one/ any integer other than zero).

Question: 51

Circle the number which is not a rational number.

$$\frac{-5}{-8}$$
 $\frac{-3}{2}$ $\frac{12}{-6}$ $\frac{0}{-9}$ 256 $\frac{4}{0}$

Answer:

Rational number can be expressed as ______, where both numerator and denominator are ______(integer/ not a integer), denominator is equal to ______ (zero/ one/ any integer other than zero).

Here, $___$ is/are rational number and $___$ is/are not a rational number.

Comparing Quantities

Topics to be Improved		
Percentage	Basic of percentage	
Simple interest Calculation of simple interest		
Profit and loss Prediction of loss and profit		

Hi,	here	in	this	${\rm video}$	you	will	learn	Basics	of	percent	age
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Question:	<i>52</i>
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2% can be written as

Answer:

Percentages are numerators of fractions with denominator_____

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

Question: 53

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: 54

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

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$\underline{Answer:}$

There are _____ apples in a basket. Number of rotten apples are _____.

Fraction	form	n of rotten apples in a basket	=	<u></u>	
Convert i	t into	o a percent= x	%	=	
Hi, her	e in	this video you will learn	Simp	ole Interest	
Question	n: 5	<u>5</u>			
Match the	e folle	owing.			
[Column A		Column B	
	i	Principle(P)	a	Interest calculated based or	n this
	ii	Amount (A)	b	Total sum you borrow	
	iii	Rate (R)	С	Number of years	
	iv	Time period (T)	d	Total sum with interest	
Number of Question	of yea n: 5 0	=	sum wit	h interest is	the interest she
Answer:					
If Amoun	t and	· —	ula for	, Time period = calculating interest is	
Question	n: 5	<u>7</u>			
The simp	le int	erest on Rs.5000 for 3 years i	is Rs.13	50. Find the rate of interest.	
Answer:	•	·			
		\perp , Time period =	:	, Principal =	
Rate of in	nteres	$st = \frac{\underline{\qquad} x \ 100}{Principal \ x \underline{\qquad}}$			
Substitut	ing v	alues in the formula,			

Rate of interest $=\frac{x \cdot 100}{\text{Defined we}}$	
Frincipal x	
Rate of interest = % Therefore, the rate of interest is %	
Therefore, the rate of interest is	
Hi, here in this video you will learn Profit and Loss	
<u>Question: 58</u>	
Anu bought a book for $\ref{100}$ and sold it for $\ref{150}$. Here, cost price of a book is price of a book is	and selling
Answer:	
The price that is paid to buy or purchase a goods is price and the price at who sold is called price. Therefore, gost price of a book calling price of a book	hich goods are
Therefore, cost price of a book $=$, selling price of a book $=$	
Question: 59	
You bought a bat for ₹50 to play cricket. After one week, you sold that bat for ₹150. profit or loss for you?	Is that a
Answer:	
In profit, selling price cost price. $(<,>,=)$ In loss, selling price cost price. $(<,>,=)$ Cost price of a bat =, selling price of a bat = Cost price is (greater / smaller) than selling price. Then it is	
<u>Question: 60</u>	
Janu bought a smart phone for Rs.19,499 and after one week she sold her phone at a Rs.2500 . Find the selling price of the phone.	loss of
Answer:	
Cost price of a smart phone =, loss =	
Therefore, selling price =	

Algebra

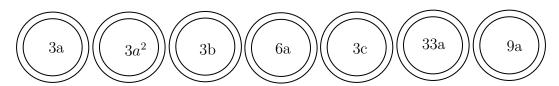
	Topics to be Improved
Addition and subtraction of algebraic expressions	Like terms and Unlike terms
Basics of simple equation	Solving of simple equation
Monomials, binomials, trinomials and polynomials	Types of algebraic expression

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



Question: 61

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: 62

Complete the expression $7r^2 + r \square - 2 \square = \underline{r^2}$

Answer:

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

$$7r^2 + r \Box - 2 \Box = (7 + \Box - 2)r^2 = \Box$$

Question: 63

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

(i)	Total	chocolates	Ram	and	Sam	have:	_
\ /	100001	CIIOCOIGUCS	T COLLI	and		may c.	

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

Answer:

	Chocolates	Icecream
Sam		
Ram		

(i) Total chocolates Ram and Sam have:

 $Ram's chocolate + Sam's chocolates = ____ + ___ = ___$

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

•	•		
icecream	recream =	_	_
rccream	icccicani —		

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



Question: 64

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: 65

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

$$7 \square + 3 = -4$$

Answer:

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

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

$$7 \times __+3 = __$$

$$7 \times __+3 = __$$

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

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

Question: 66

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
$2x = 2 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} 2x - 4 = 2 \times \underline{\hspace{1cm}} - 4 = \underline{\hspace{1cm}}$
$x + 3 = \underline{\qquad} = \underline{\qquad} = \frac{1}{2} \times \underline{\qquad} = \underline{\qquad}$
$5x \times 1 = 5 \times \underline{\hspace{1cm}} \times 1 = \underline{\hspace{1cm}}$
Arranging in descending order:,,,
Their respective algebraic terms are,,,,
Hi, here in this video you will learn Types of expression
Question: 67
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: 68
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
$\underline{Question:~69}$

$5m^2 + m + 0$ is a ex	pression. (Monomial/Binomial/	Trinomial)
Answer:		
The terms in expression $5m^2 + m +$	0 are	
Here the expression has	terms and it is called a	expression