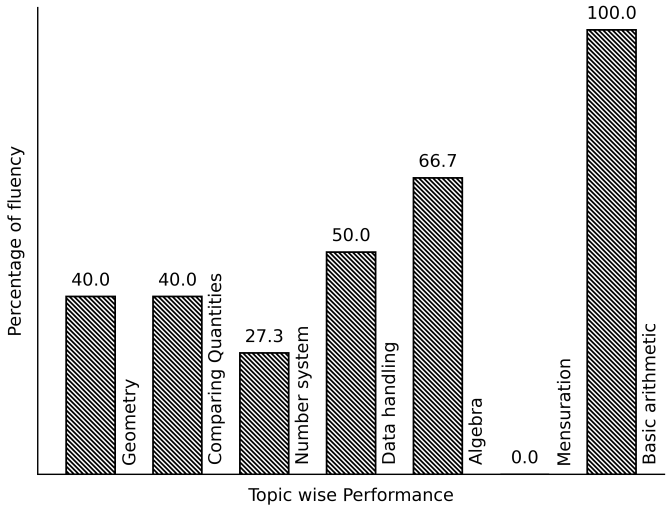
LaPIS Diagnostic Test Workbook - Mathematics

Name	**:**	**Monish P**
Class	**:**	**7**
Section	**:**	**C**
School	**:**	**AKV Public School**
Login ID	**:**	**AKV175**

Monish P's Performance Report



Score: 17/40 **Percentage: 42.5%**

Monish P's Study Planner

Date	Topics Planned	Q. Numbers	Teacher Remark	Teacher Sign	Parent Sign

Teacher's Feedback to Student

Class Teacher Signature

Principal Signature

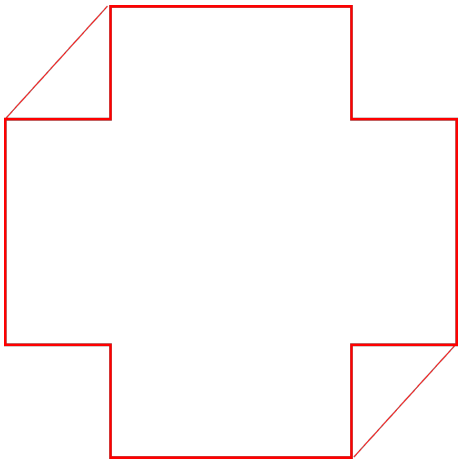
Mensuration

Topics to be Improved	
Perimeter	Perimeter of triangle
Area	Area of rectangle

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

Question: 1 .....

Highlight the perimeter in the given image.

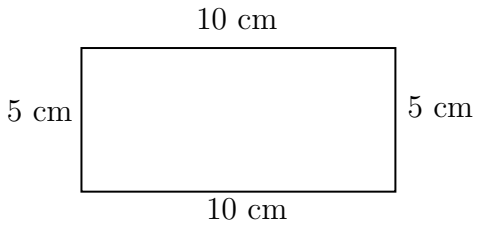


Answer:

Perimeter is the _____ (outer / inner) boundary of the shape

Question: 2 .....

Find the perimeter of the given figure.



Answer:

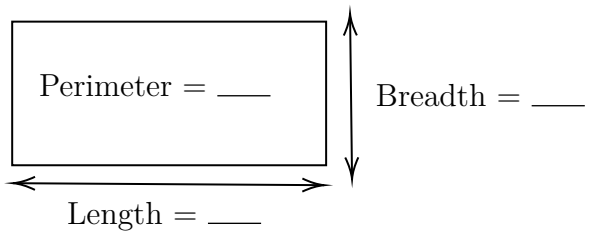
Sides of the given shape = _____.
Perimeter of a shape is _____ (sum / difference) of _____ (all/ opposite) sides.

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 = _____.

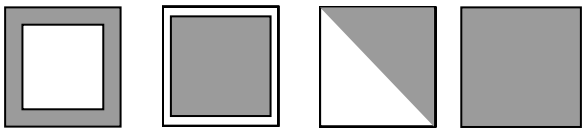
Perimeter of the floor = 2(_____ + _____).

Therefore, length of the rectangular floor is _____.

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

Question: 4 .....

Find which of the shaded portion in the given shape represent it's area.



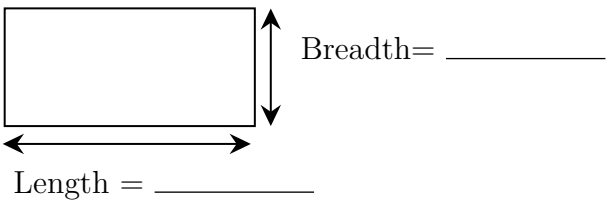
Answer:

Given figure is _____ in shape.
Area is the _____ (inside/ outside/ boundary) of a shape.

Question: 5 .....

Find the area of a rectangular garden whose dimension is 25 ft in length and 20 ft in breadth.

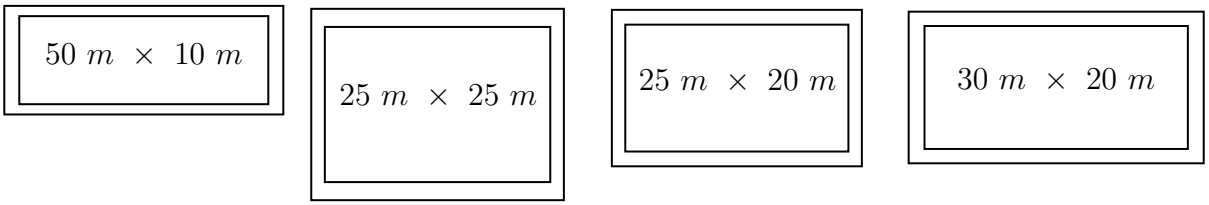
Answer:



The garden is in _____ shape.
Length of garden is _____ and breadth of garden is _____.
Formula for area of the shape = _____.
The area of garden = _____ x _____ = _____ cm^2

Question: 6 .....

Shade the possible dimension of the door whose area is 500 m^2



Answer:

Door is _____ in shape. Area of the _____ shaped door is _____.

Dimensions	Length	Breadth	Area
50m × 10m			
25m × 25m			
25m × 20m			
30m × 20m			

Therefore, possible dimension of the door whose area is 500 m^2 is/are _____

Data handling

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

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

Question: 7 .....

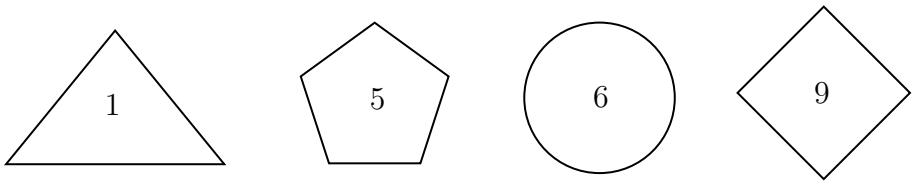
Find the mode of the following data: 5, 15, 23, 5, 32, 44, 72, 55, 6, 3, 5, 65, 45, 67, 24, 19 and 98.

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. Then, mode of the given data is _____

Question: 8 .....

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



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 : _____
Central value of the given data is _____ and it is the _____ of a data.

Question: 9 .....

Marks scored	100	90	80	70
Number of students	4	5	2	1

Mean =_____ , Median = _____ and Mode = _____.

Answer:

Mean = $\frac{\text{\_\_\_\_\_ of all observation}}{\text{number of observation}}$.

Here s sum of all observation = _____ , number of observation = _____
Therefore, mean = _____
Arrange the data in ascending order : _____
Here, median = _____ , mode = _____.

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

Question: 10 .....

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 = _____ , Lowest value = _____ .
Range = _____ − _____ = _____.

Question: 11 .....

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:

Range = _____ - _____.
Arranging the data in ascending order, _____
In the given data,
Highest value = ___ , Lowest value = ___ , Range = _____ − _____ = _____

Question: 12 .....

Find the range of first 10 multiple of 5.

Answer:

First 10 multiple of 5 = _____
Therefore,
Highest value = _____ , Lowest value = _____ , Range = _____ − _____ = _____

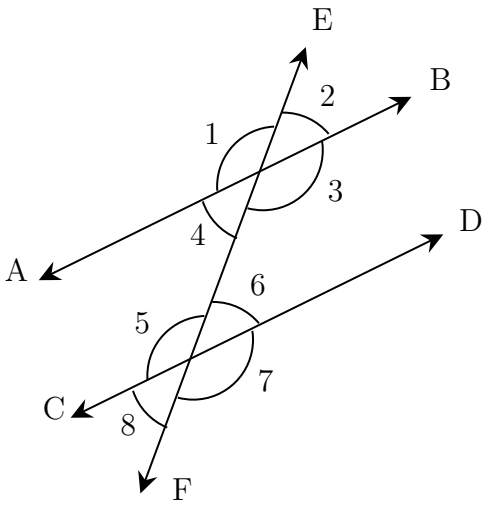
Geometry

Topics to be Improved	
Transversal angle made by transversal	Basics of Transversal angle
Criteria for congruence of triangle	Idenfication of criteria of congruence of triangles
Sum of lengths of two sides of a triangle	Sum of two sides of a triangle
Faces vertex and edges	Idenfication of faces,edges and vertices
Angle sum property of triangle	Angle sum property of triangle
Types of triangle	Basics of types of triangle (sides)

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

Question: 13 .....

In given diagram, $\angle 1$ and $\angle 7$ are _____ (alternate / corresponding) angles.



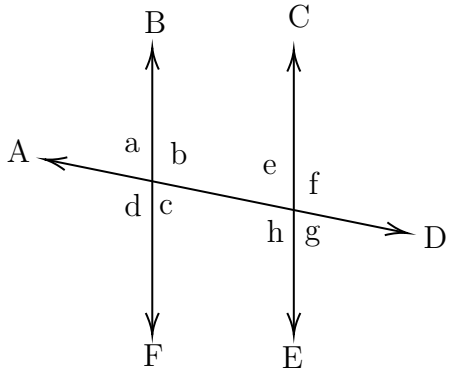
Answer:

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, ∠1 and ∠7 are _____

Question: 14 .....

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



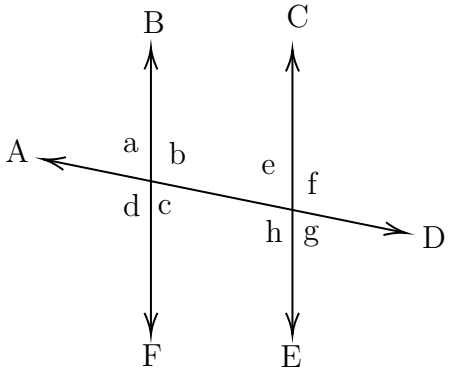
Answer:

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
∠a and ∠g , ∠b and ∠h,	∠a and ∠e, ∠b and ∠f,

Question: 15 .....

Find ∠e and ∠g if ∠a = 30°.



Answer:

When parallel lines cut by a transversal,

(i) Alternate angles are _____ (equal / not equal).

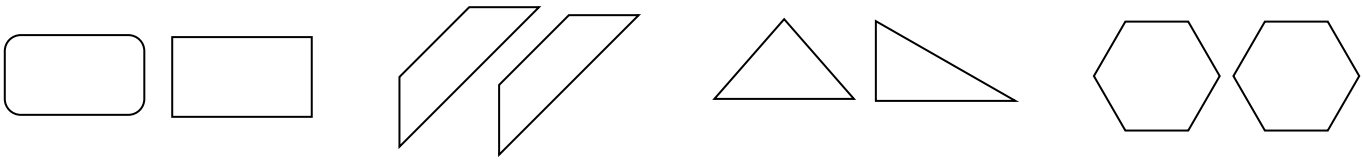
(ii) Corresponding angles are _____ (equal / not equal).

Here, alternate angle of ∠a is _____ and its value is _____.
Corresponding angle of ∠a is _____ and its value is _____.

Hi, here in this video you will learn **Criteria of congruence**

Question: 16 .....

Circle the groups that contain congruent images.



Answer:

Two geometrical shapes are said to be congruent if they are _____ (identical/non-identical) in shapes and size.
Example: Square and Rectangle are _____ (congruent/not congruent).

Question: 17 .....

If the three sides of the triangle are equal to the corresponding sides of the other triangle, then two triangles are congruent under _____ (SSS/ASA/SAS) criteria .

Answer:

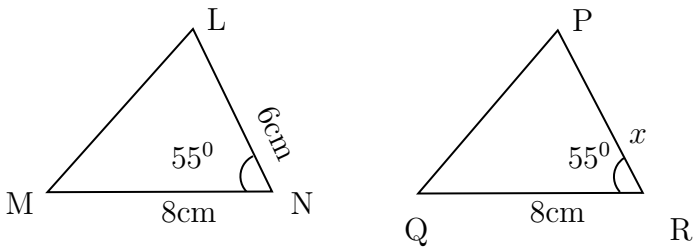
Two triangle are _____ (congruent/not congruent) if they are identical in shapes and size.
Criteria for congruence of triangles are SSS, _____ and _____.

1. In SSS Congruence criteria - ___ (2/ 3/ 5) sides of the triangle are _____ (equal/ not equal) to the three corresponding sides of the other triangle.
2. In SAS Congruence criteria - ___(2/ 3/ 5) sides and _____ (one/two) angle between them are equal to the corresponding sides and the included angle of the other triangle.
3. In ASA Congruence criteria - ___ (2/ 3/ 5) angles and _____ (one/two) side between them are equal to the corresponding angles and the included side of the other triangle.

SSS	_____ sides and _____ angles are equal
SAS	_____ sides and _____ angles are equal
ASA	_____ sides and _____ angles are equal

Question: 18 .....

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



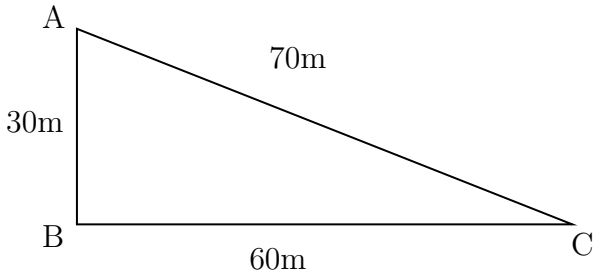
Answer:

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 $\triangle PRQ$
The common included angle in $\triangle$ LNM and $\triangle PRQ$ are _____
The side PR is equal to the side in _____ ΔLNM.
Therefore, length of side PR = _____

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

Question: 19 .....

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: 20 .....

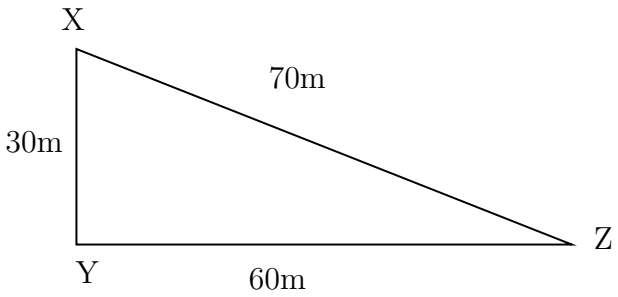
_____ (Sum of / Difference between) the length of any two sides of a triangle is smaller than the length of the third side.

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,

XY + YZ ☐ XZ (<,>, =)

YZ - XY ☐ XZ (<, >, =)



Question: 21 .....

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 _____.

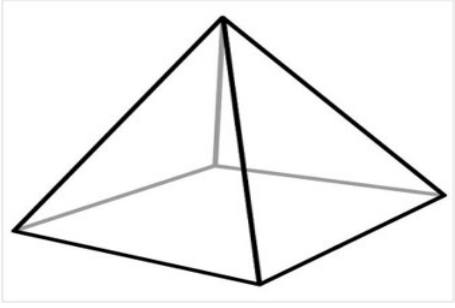
Hi, here in this video you will learn **Basics of 3D model**

Question: 22 .....

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

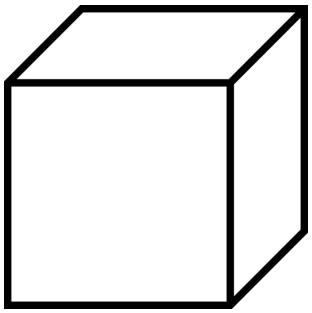
Answer:

_____ 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,



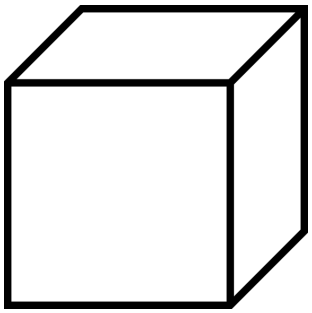
Question: 23 .....

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



Answer:

Mark the vertex, edges and faces in a cube.



Count the number of vertex, edges and faces in a cube.
Cube have _____ vertices, _____ edges and _____ faces.

Question: 24 .....

How many vertices, edges and faces does dices have?

Answer:

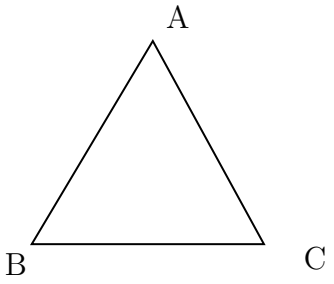
The shape of dice is _____.
Dices have _____ vertices, _____ edges and _____ faces.

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

Question: 25

Sum of the angles of triangle is _____.

Answer:

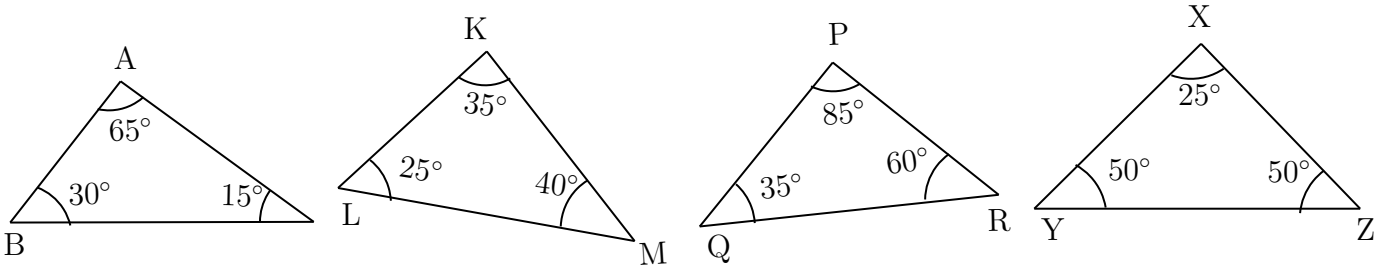


$\angle A + \angle B + \angle C =$ _____

Angle sum formula $= (n-2) \times 180°, n =$ number of sides
Triangle has _____ sides.
Sum of the angles of triangle $= ($_____ $- 2) \times 180° =$ _____

Question: 26

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 $\triangle KLM$, Sum of the angles $=$ _____ $=$ _____ $=$ _____
In $\triangle XYZ$, Sum of the angles $=$ _____ $=$ _____ $=$ _____
Therefore, the triangles that satisfy the angle sum property are $=$ _____

Question: 27

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°. The value of x = _____
The angles of the triangle are _____

Hi, here in this video you will learn **Types of triangle**

Question: 28 .....

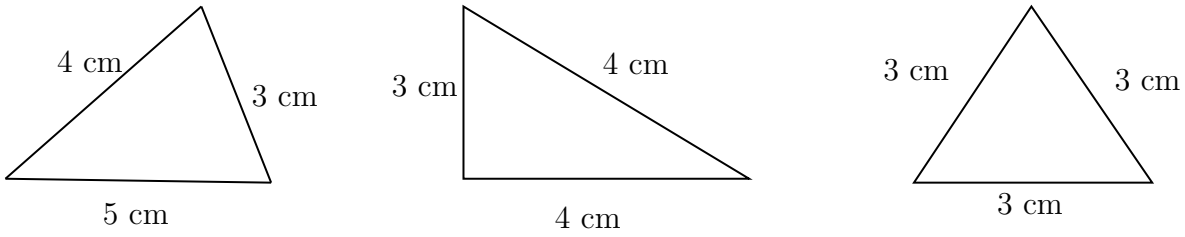
Polygon with three sides is called as _____.

Answer:

A polygon is a simple _____ (open / closed) curve made up of only line segments.
Polygon with three sides is called _____.
Draw a diagram of polygon with three sides :

Question: 29 .....

Identify the types of triangles.



Answer:

Triangle has _____ sides.

- Triangle with all sides are equal is called _____ triangle.
- Triangle with two sides of equal length is called _____ triangle.
- Triangle with three sides of different length is called _____ triangle.

Question: 30 .....

A park is in the shape of an isosceles triangle. If side length of the park is 30ft and 60ft. then the possible length of third side of park can be _____.

Answer:

The shape of the park is _____ .
The shapes has _____ sides and this shape has _____ sides of equal length.
Given: length of sides of park is _____.
The possible length of third side is _____.

Number system

Topics to be Improved	
Operations on rational numbers	Subtraction of rational numbers, Division of rational numbers
Exponents	Solving exponents
Positive and negative rational numbers	Identification of positive rational numbers
Fractions	Division of fraction, Multiplication of fractions
Properties of integers	Associative property
Decimals	Multiplication and division of decimals

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

Question: 31 .....

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

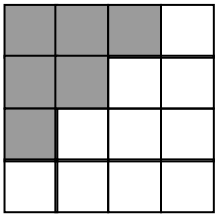
Answer:

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

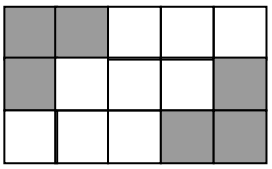
$$\frac{-3}{3} + \frac{1}{3} = \frac{\quad}{3} =$$

Question: 32 .....

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



A



B

Answer:

Total number of square in box A = _____.
Number of shaded square in box A = _____

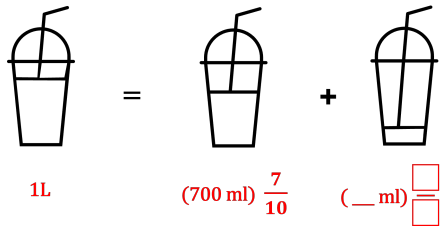
Shaded part of box A in fraction = _____

Total number of square in box B = _____.
Number of shaded square in box B = _____.
Shaded part of box B in fraction = _____.

Shaded part of box A + Shaded part of box B = _____ + _____ = _____

Question: 33 .....

Find the missing values in the given figure.



Answer:

One litre = _____ ml
$\frac{7}{10}$ of one liter = $\frac{7}{10}$ x ___ ml = ___ ml

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

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

Question: 34 .....

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).

1000 can be written as = 10 × _____ × _____
10 is raised to the power of ___ = $(10)^{\_\_}$

Question: 35 .....

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: 36 .....

(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 = $(Base)^{\text{——}}$

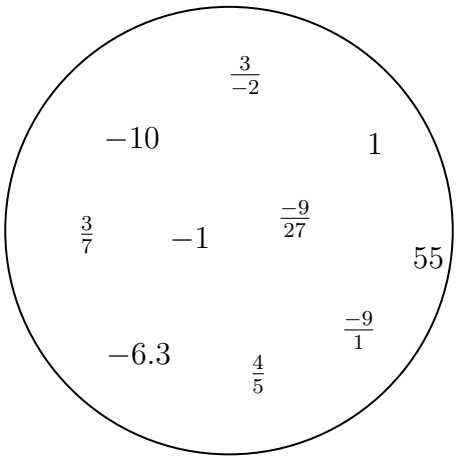
(i) Tenth power of 100 : Base = ___, Power/Exponents = ___, exponential form = ___.

(ii) k is raised to the power of 5 : Base = ___, Power/Exponent = ___, exponential form = ___.

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

Question: 37 .....

Segregate positive and negative rational number.



Answer:

- 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 $\frac{-3}{-4} = \frac{\square}{\square}$ 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 × Negative rational number = _____ × _____ = _____ and this is _____ rational number

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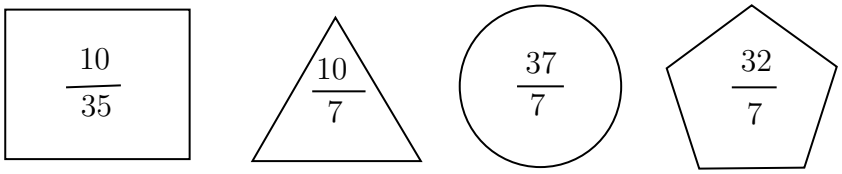
Hi, here in this video you will learn **Division on fractions**

Question: 40 .....

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



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, $\frac{(\text{ Whole} \times \_\_\_\_\_) + Numerator}{Denominator}$

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

Question: 41 .....

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 = _____.

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

Question: 42 .....

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

Answer:

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

$$\frac{12}{40} \div \_\_\_\_ = \frac{12}{40} \times \frac{\square}{\square} = \frac{\square}{\square}$$

Then the answer is _____

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

Question: 43 .....

Fill the boxes

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

Answer:

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.

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

Question: 44 .....

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 = $\frac{\square}{\square}$ × _____ = _____

Question: 45 .....

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, $\frac{(\text{ Whole} \times \_\_\_\_\_)+Numerator}{Denominator}$
Improper fraction of $2\frac{7}{4}$ = _____

$$2\ \frac{7}{4}\ \times \frac{2}{3} = \frac{\square}{\square}\ \times \frac{2}{3} = \frac{\square}{\square}$$

Hi, here in this video you will learn **Properties of integers**

Question: 46 .....

Match the following based on the properties of integers

i	Closure
ii	Associative
iii	Commutative
iv	Identity

a	(5 + 7) + 3 = 3 + (7 + 5)
b	21 + 0 = 21
c	15 + 17 = 32
d	1 + 99 = 99 + 1

Answer:

(i) Closure property :
The sum of integers is always _____(integer / not a integer).
Therefore, _____ + _____ = _____
From the given option _____ satisfies the closure property.

(ii) Associative property :
Rearranging the parentheses (brackets) _____ (does not/ does) change the sum.
Therefore, (a + b) + c = _____.
From the given option _____ satisfies the Associative property.

(iii) Commutative property :
Changing the order of the addends _____ (does not/ does) change the sum.
Therefore, a + b = _____ + _____
From the given option _____ satisfies the Commutative property.

(iv) Identity property : The sum of _____ and any number always returns same number.
Therefore, a + _____ = a
From the given option _____ satisfies the Identity property.

Question: 47 .....

Mark the operations in which commutative property holds true for any two integers.

Addition Subtraction Multiplication Division

Answer:

In commutative property, changing the _____ (order/ brackets) of the operands _____ (does not/ does) change the result.
For any two integers, commutative property holds true for _____.
The commutative property for addition is _____.
The commutative property for multiplication is _____.

Question: 48 .....

Are additive identity and multiplicative identity the same? (Yes or No)

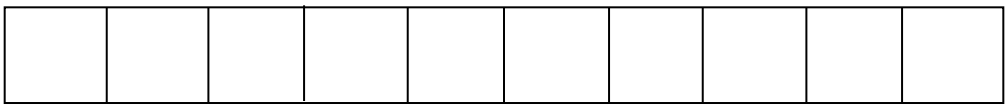
Answer:

Identity property holds only for _____ , _____
The Identity property for addition is _____ and additive identity is _____.
The Identity property for multiplication is _____ and multiplicative identity is _____.
Therefore, additive identity is _____ (equal / not equal) to multiplicative identity.

Hi, here in this video you will learn **Basics of decimals**

Question: 49 .....

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 of _____equal parts.
So, we need to shade _____ boxes out of _____boxes.

Question: 50 .....

Solve the following.

(i) 0.4×1.2

(ii) 0.48×1.2

Answer:

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

Question: 51 .....

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 = _____ ÷ _____= _____

(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 × _____ = _____ x _____ = _____

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

Question: 52 .....

Fill in the boxes to make the given expression correct.

$$\frac{1}{5} \div \frac{14}{15} = \frac{1}{\square} \times \frac{\square}{\square}$$

Answer:

When any fraction is divided by a fraction, we multiply the dividend by the _____ (same/reciprocal) of the divisor.

Here, dividend = _____ and divisor = _____

$$\frac{1}{5} \div \frac{14}{15} = \frac{1}{\square} \times \frac{\square}{\square} = \frac{\square}{\square}$$

Question: 53 .....

Solve: $\frac{18}{7} \div 0.6$

Answer:

Fraction form of 0.6 = _____,
when any fraction is divided by a fraction, we multiply the dividend by the _____ (same/reciprocal) of the divisor. Here, dividend = _____ and divisor = _____.

$$\frac{18}{7} \div \frac{\square}{\square} = \frac{18}{7} \times \frac{\square}{\square} = \frac{\square}{\square}$$

Question: 54 .....

Find the missing number in the expression $\frac{8}{3} \div \frac{16}{\square} = 2$

Answer:

$$\frac{8}{3} \div \frac{16}{\square} = 2$$

$$\frac{8}{3} \times \frac{\square}{16} = 2$$

Transposing 8/3 to RHS,

$$\frac{\square}{16} = 2 \square \frac{8}{3}$$

$$\frac{\square}{16} = 2 \times \frac{\square}{\square}$$

$$\frac{\square}{16} = \frac{\square}{\square}$$

Transposing 16 to other side, the result is _____.

Comparing Quantities

Topics to be Improved	
Percentage	Basic of percentage
Profit and loss	Prediction of loss and profit
Conversion of fraction into percentage	Conversion of fraction into percentage

Hi, here in this video you will learn **Basics of percentage**

Question: 55 .....

2% can be written as

Answer:

Percentages are numerators of fractions with denominator_____

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

Question: 56 .....

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 $\frac{\square}{\square}$

Then the mark scored by Arun = Total mark $\times$ 75% = _____ $\times$ $\frac{\square}{\square}$ = _____

Question: 57 .....

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

Answer:

There are _____ apples in a basket.

Number of rotten apples are _____ .

Fraction form of rotten apples in a basket = $\frac{\square}{\square}$

Convert it into a percent= _____ x _____% = _____

Hi, here in this video you will learn **Profit and Loss**

Question: 58 .....

Anu bought a book for ₹100 and sold it for ₹150 . Here, cost price of a book is _____ and selling price of a book is _____

Answer:

The price that is paid to buy or purchase a goods is _____ price and the price at which goods are sold is called _____ price.
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. Is that a profit or loss for you?

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 _____.

Question: 60 .....

Janu bought a smart phone for Rs.19,499 and after one week she sold her phone at a loss of Rs.2500 . Find the selling price of the phone.

Answer:

Cost price of a smart phone = _____ , loss = _____
Loss = _____ - _____ = _____ - _____
Therefore, selling price = _____

Hi, here in this video you will learn **Converting fraction into percentage**

Question: 61 .....

Complete the box in the given equation.

$$5\% = \frac{5}{\square}$$

Answer:

Percentage are the fraction with the denominator _____.

Therefore, 5% can be expressed as _____

Question: 62 .....

Mark the correct conversion form of fraction $\frac{1}{2}$ to percentage.

(i) $\frac{1}{2} \times \frac{50}{50} = \frac{50}{100} = 50\%$

(ii) $\frac{1}{2} \times \frac{100}{100} = \frac{100}{200} = 200\%$

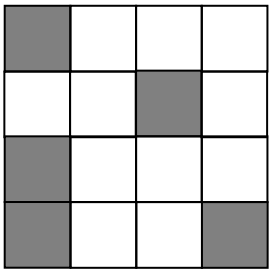
(iii) $\frac{1}{2} \times 100 = \frac{100}{2} = 50\%$

Answer:

To convert fraction into percentage, the value of _____ (denominator / numerator)should be 100 or _____ (multiply / divide) the fraction with 100 %.
Therefore, correct conversion form is _____

Question: 63 .....

Find the percentage of shaded part of square.



Answer:

The square shape is divided into _____ parts.
Number of shaded part of square is _____.

Shaded part of square in fraction is $\frac{\square}{\square}$

To Convert $\frac{\square}{\square}$ into percentage , $\frac{\square}{\square}$ x 100

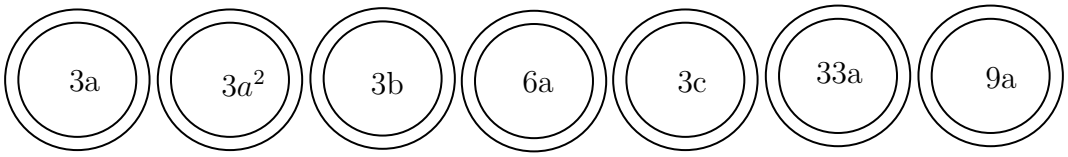
Algebra

Topics to be Improved	
Addition and subtraction of algebraic expressions	Like terms and Unlike terms
subtraction of algebraic expressions	subtraction of algebraic expressions

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

Question: 64 .....

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: 65 .....

Complete the expression $7r^2 +$ r$\square$ $-$ 2$\square$ $=$ ___r^2

Answer:

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

$$7r^2 + \text{r}\square - 2\square = \left(7 + \_\_\_ - 2\right) r^2 = \_\_\_\_\_$$

Question: 66 .....

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

(i) Total chocolates Ram and Sam have : _____.

(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 - _____ icecream = _____ - _____ = _____

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

Question: 67 .....

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

Answer:

The given two expressions are _____ and _____.
The two terms will get added only if they are _____(Like/ Unlike) terms.
The sum of two expressions = _____ + _____.
The answer is _____

Question: 68 .....

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

(i) Total number of boys in school A and B is _____

(ii) Total number of students in school B is _____

(iii) How many more teachers are there in school B than school A ? _____

Answer:

(i) Number of boys in school A = _____,
Number of boys in school B = _____.
Total number of boys in school A and school B is _____ + _____ = _____.

(ii) Number of boys in school B = _____,
Number of girls in school B = _____.
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: 69 .....

Solve the following:

	$13x + \_\_\_$			$3a - 5b$
(+)	$12x + 10y$		(-)	$5a - 7b$
	$\_\_\_ + 25y$			$-2a - \_\_\_$

Answer:

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

	$13x + \_\_\_$			$3a - 5b$
(+)	$12x + 10y$		(-)	$5a - 7b$
	$\_\_\_ + 25y$			$-2a - \_\_\_$