

# LaPIS Diagnostic Test Workbook - Mathematics

---

Name : Asmitha A S

Class : 7

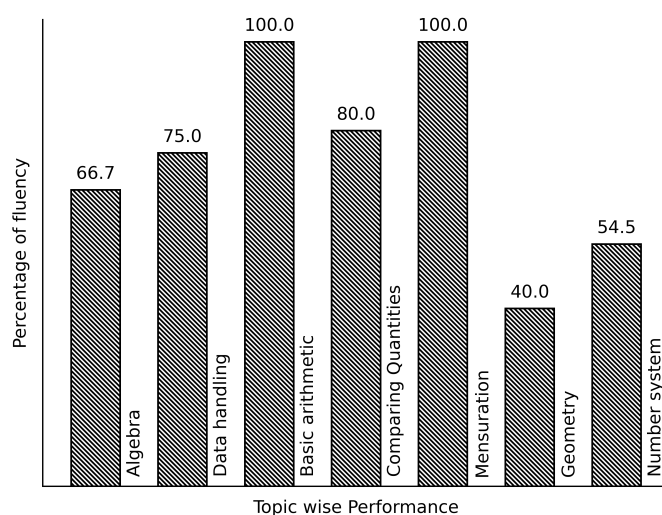
Section : C

School : AKV Public School

Login ID : AKV186

---

## Asmitha A S's Performance Report



---

Score: 25/40

Percentage: 62.5%

---

## Asmitha A S's Study Planner

---

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

Teacher's Feedback to Student

---

Class Teacher Signature

---

Principal Signature

---

## Data handling

---

### Topics to be Improved

Chance of probability

Sample space in probability

---

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

---



**Question: 1** .....

Which of the following contains list of all possible outcomes.

Probability

Sample space

Sure events

Impossible events

**Answer:**

Probability is the measure of \_\_\_\_\_ ( chance /number) of an events happenings.

Sample space consists of \_\_\_\_\_ ( possible/ impossible) outcomes.

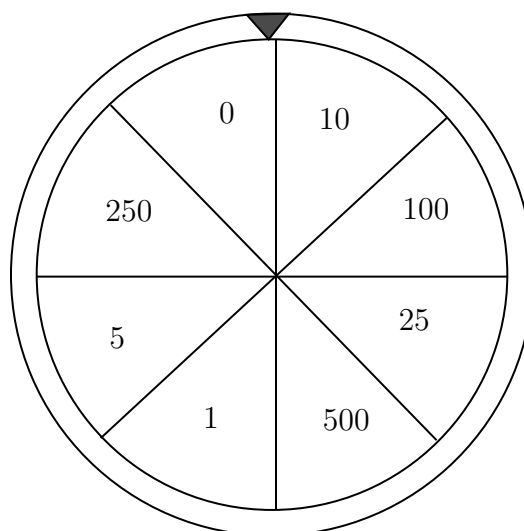
Sure events always \_\_\_\_\_ (occurs/don't occurs).

Impossible events \_\_\_\_\_ (occurs/ don't occurs).

Therefore, \_\_\_\_\_ contains list of possible outcomes.

**Question: 2** .....

Write the possible outcomes while spinning the given wheel.



**Answer:**

Outcomes are \_\_\_\_\_ (possible/impossible) results of an experiment.

The possible outcomes while spinning wheel are ₹0, ₹10, \_\_\_\_\_

**Question: 3** .....

A bag contains three balls of colour blue, green and red. Write the possible outcomes if two balls are taken out.

**Answer:**

A bag contains \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ balls.

If one of the ball is blue in colour, then other ball can be \_\_\_\_\_ or \_\_\_\_\_

If one of the ball is green in colour, then other ball can be \_\_\_\_\_ or \_\_\_\_\_.

If one of the ball is red in colour, then other ball can be \_\_\_\_\_ or \_\_\_\_\_.

Therefore, if two balls are taken out then possible outcomes are blue + \_\_\_\_\_ ,  
\_\_\_\_\_ + \_\_\_\_\_, \_\_\_\_\_ + \_\_\_\_\_,

# Geometry

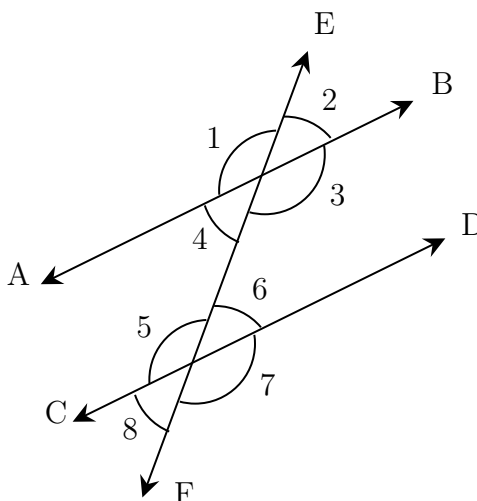
Topics to be Improved	
Transversal angle made by transversal	Basics of Transversal angle
Related angles	Basic of angles
Right angle triangle and pythagoras property	Basics of Pythagoras property
Angle sum property of triangle	Angle sum property of triangle
Faces vertex and edges	Identification of faces, edges and vertices
Sum of lengths of two sides of a triangle	Sum of two sides of a triangle

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



**Question: 4** .....

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).

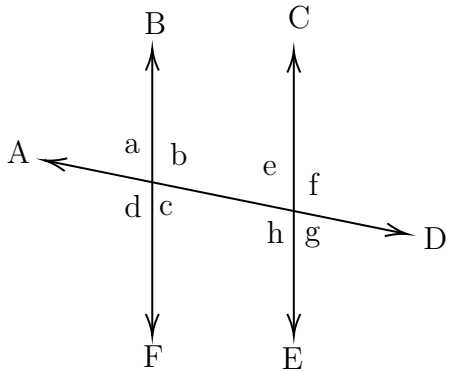
Angle that lies on different vertices and on the opposite sides of transversal is \_\_\_\_\_ angles.

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

Therefore,  $\angle 1$  and  $\angle 7$  are \_\_\_\_\_

**Question: 5** .....

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



**Answer:**

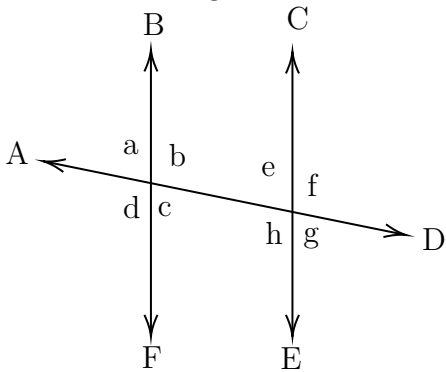
A line that intersects two or more lines at distinct points is called a \_\_\_\_\_ (transversal/Intersecting line).

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: 6** .....

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 **Related Angles**

---



**Question: 7** .....

- (i) When two rays of an angle are perpendicular, then the angle formed between them is a \_\_\_\_\_ angle .
- (ii) When two rays of an angle are in opposite sides, then the angle formed between them is a \_\_\_\_\_ angle .

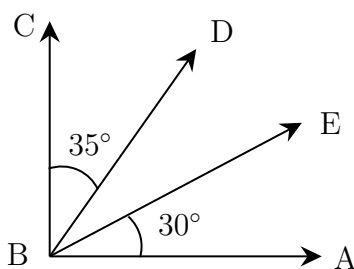
**Answer:**

A \_\_\_\_\_ ( line segment / ray ) begins from one point and travels endlessly in a direction.

- (i) The angle formed between two perpendicular rays is \_\_\_\_° and it is called \_\_\_\_\_ angle.
- (ii) If two rays starting at same point moves in opposite direction, they form a \_\_\_\_\_ (straight / perpendicular) line. The measure of the angle formed is \_\_\_\_° and it is called \_\_\_\_\_ angles.

**Question: 8** .....

Find the angle of  $\angle DBE$



**Answer:**

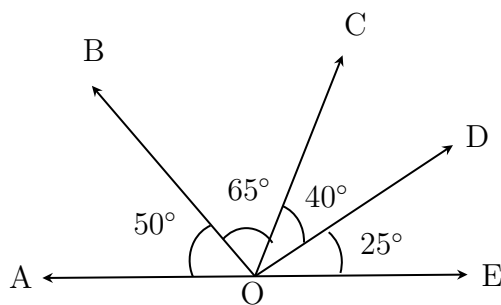
BA and BC are \_\_\_\_\_ ( parallel / perpendicular) rays.  
 The angle formed between this rays is \_\_\_\_\_,  $\angle ABC =$  \_\_\_\_\_.

$$\begin{aligned}\angle ABC &= \angle ABE + \text{_____} + \text{_____} \\ &= 30^\circ + \text{_____} + \text{_____} \\ &= \text{_____}\end{aligned}$$

Therefore,  $\angle DBE =$  \_\_\_\_\_

**Question: 9** .....

Find the complementary angles in the given diagram.



**Answer:**

Two angles are said to be complementary if the sum of their angles is equal to \_\_\_\_\_.

$\angle AOB =$  \_\_\_\_\_, and its complement angle is \_\_\_\_\_.

$\angle BOC =$  \_\_\_\_\_, and its complement angle is \_\_\_\_\_.

$\angle COD =$  \_\_\_\_\_, and its complement angle is \_\_\_\_\_.

$\angle DOE =$  \_\_\_\_\_, and its complement angle is \_\_\_\_\_.

Therefore, in the given figure the complementary angles are  $\angle AOB$ , \_\_\_\_\_ and  $\angle BOC$ , \_\_\_\_\_

---

Hi, here in this video you will learn **Pythagoras property**

---



**Question: 10** .....

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).

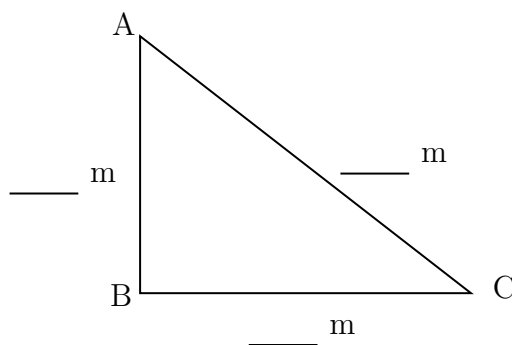
Pythagoras theorem states that \_\_\_\_\_.

**Question: 11** .....

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 = \_\_\_\_\_, Altitude = \_\_\_\_\_,

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

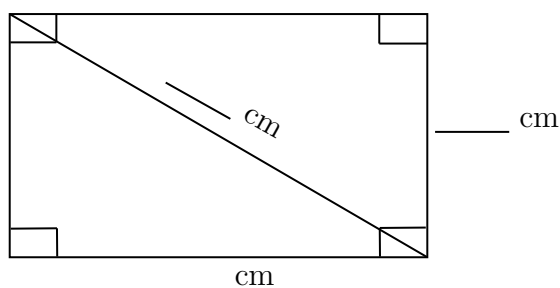
By Pythagoras theorem,  $(\text{_____})^2 = (\text{_____})^2 + (\text{_____})^2$   
 $\text{_____} = \text{_____} + \text{_____}$

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

**Question: 12** .....

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

**Answer:**



Pythagoras theorem states that square on the \_\_\_\_\_ = sum of the squares on \_\_\_\_\_.

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

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

By Pythagoras theorem,  $(\text{_____})^2 = (\text{_____})^2 + (\text{_____})^2$   
 $\text{_____} = \text{_____} + \text{_____}$

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

---

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

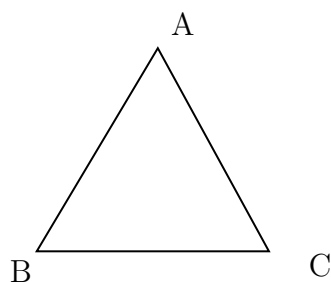
---



**Question: 13** .....

Sum of the angles of triangle is \_\_\_\_\_.

**Answer:**



$$\angle A + \angle B + \angle C = \underline{\hspace{2cm}}$$

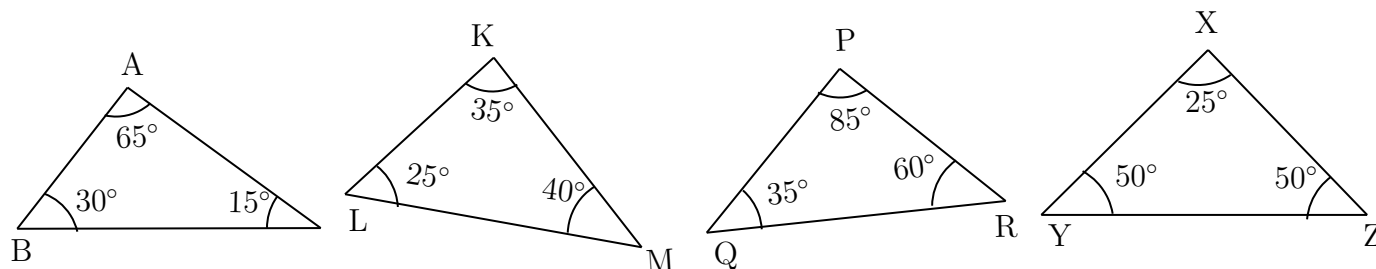
Angle sum formula =  $(n - 2) \times 180^\circ$ ,  $n$  = number of sides

Triangle has        sides.

Sum of the angles of triangle =  $(\underline{\hspace{2cm}} - 2) \times 180^\circ = \underline{\hspace{2cm}}$

**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 =  $\angle A + \angle B + \angle C = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

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: 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,  $8x + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = 180^\circ$ . The value of  $x = \underline{\hspace{2cm}}$

The angles of the triangle are                     

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



**Question: 16** .....

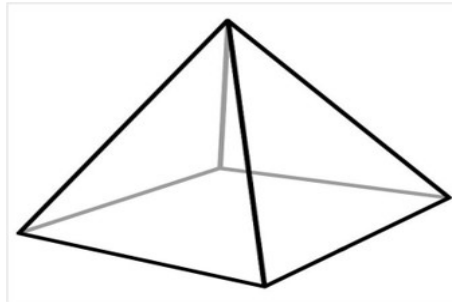
A point at which two or more lines segments meet is called \_\_\_\_\_(Vertex/ edges/ faces).

**Answer:**

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

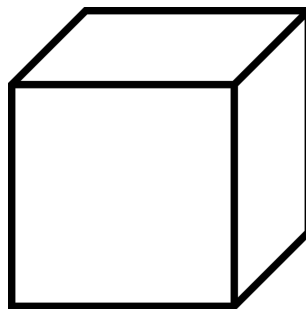
A \_\_\_\_\_ is a point where two or more line segments meet(Vertex/ edges/ faces).

Mark the vertices in the diagram,



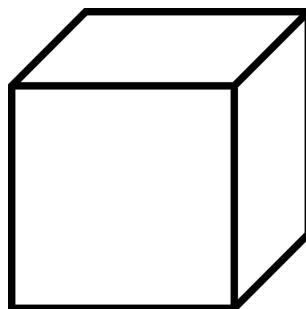
**Question: 17** .....

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: 18** .....

How many vertices, edges and faces does dices have?



**Answer:**

The shape of dice is \_\_\_\_\_.

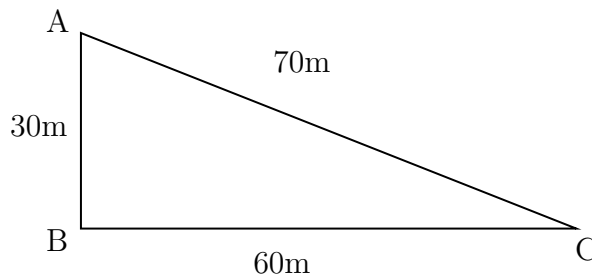
Dices have \_\_\_\_\_ vertices, \_\_\_\_\_ edges and \_\_\_\_\_ faces.

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

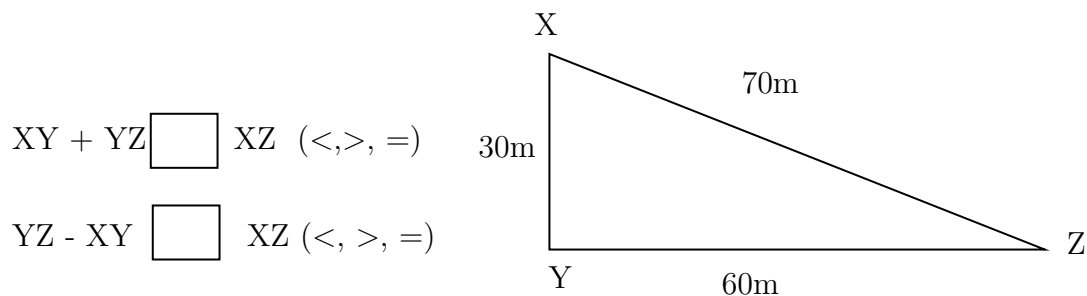
**Answer:**

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,



**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 \_\_\_\_\_.

# Number system

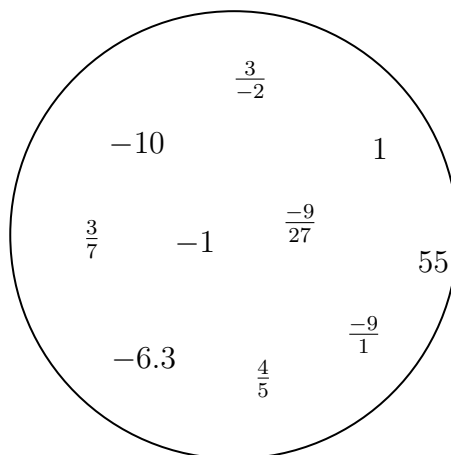
Topics to be Improved	
Positive and negative rational numbers	Identification of positive rational numbers
Operations on rational numbers	Subtraction of rational numbers, Division of rational numbers
Properties of integers	Associative property
Exponents	Solving exponents

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



**Question: 22** .....

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: 23** .....

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

**Answer:**

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

Division of  $\frac{-3}{-4} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$  and this \_\_\_\_\_ rational number.

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

**Question: 24** .....

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 **Operation on rational numbers**



**Question: 25** .....

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

**Answer:**

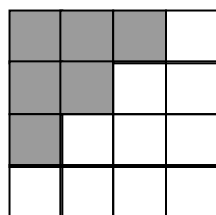
Fractions with same denominators are called \_\_\_\_\_ (like/ unlike) fractions.

Fraction can be added only if they are \_\_\_\_\_ (like/ unlike) fractions.

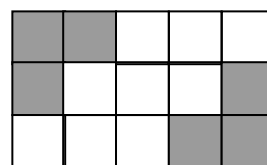
$$\frac{-3}{3} + \frac{1}{3} = \frac{\phantom{00}}{3} =$$

**Question: 26** .....

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 = \_\_\_\_\_.

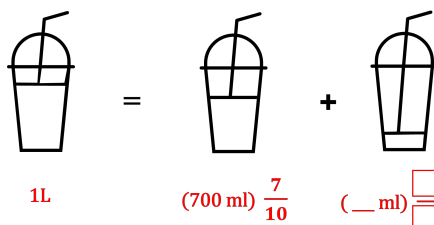
Number of shaded square in box B = \_\_\_\_\_.

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

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

**Question: 27** .....

Find the missing values in the given figure.



**Answer:**

One litre = \_\_\_\_\_ ml

$\frac{7}{10}$  of one liter =  $\frac{7}{10} \times$  \_\_\_\_\_ 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 **Properties of integers**

---



**Question: 28** .....

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,  $a + b = \text{_____} + \text{_____}$

From the given option \_\_\_\_\_ satisfies the Commutative property.

(iv) Identity property : The sum of \_\_\_\_\_ and any number always returns same number.

Therefore,  $a + \text{_____} = a$

From the given option \_\_\_\_\_ satisfies the Identity property.

**Question: 29** .....

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: 30** .....

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 **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).

1000 can be written as  $= 10 \times \text{_____} \times \text{_____}$

10 is raised to the power of \_\_\_\_  $= (10)\text{—}$

**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 = \_\_\_\_\_.  
 $(-2)^3 = \_\_\_ \times \_\_\_ \times \_\_\_ = \_\_\_.$

**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 numbers**

---



**Question: 34** .....

Fill in the boxes to make the given expression correct.

$$\frac{1}{5} \div \frac{14}{15} = \frac{1}{\boxed{\phantom{00}}} \times \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

**Answer:**

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

Here, dividend = \_\_\_\_\_ and divisor = \_\_\_\_\_

$$\frac{1}{5} \div \frac{14}{15} = \frac{1}{\boxed{\phantom{00}}} \times \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

**Question: 35** .....

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 = \_\_\_\_\_.

$$\frac{18}{7} \div \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{18}{7} \times \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

**Question: 36** .....

Find the missing number in the expression  $\frac{8}{3} \div \frac{16}{\boxed{\phantom{00}}} = 2$

**Answer:**

$$\frac{8}{3} \div \frac{16}{\boxed{\phantom{00}}} = 2$$

$$\frac{8}{3} \times \frac{\boxed{\phantom{00}}}{16} = 2$$

Transposing  $\frac{8}{3}$  to RHS,

$$\frac{\boxed{\phantom{00}}}{16} = 2 \boxed{\phantom{00}} \frac{8}{3}$$

$$\frac{\boxed{\phantom{00}}}{16} = 2 \times \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\frac{\boxed{\phantom{00}}}{16} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

Transposing 16 to other side, the result is \_\_\_\_\_.

## Comparing Quantities

Topics to be Improved	
Conversion of fraction into percentage	Conversion of fraction into percentage

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



**Question: 37** .....

Complete the box in the given equation.

$$5\% = \frac{5}{\boxed{\phantom{00}}}$$

**Answer:**

Percentage are the fraction with the denominator \_\_\_\_\_.

Therefore, 5% can be expressed as \_\_\_\_\_

**Question: 38** .....

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

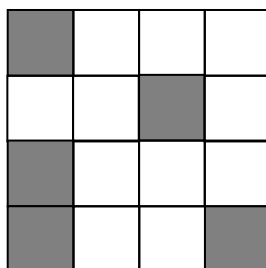
**Answer:**

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: 39** .....

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 \_\_\_\_\_

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

---

Algebra

---

---

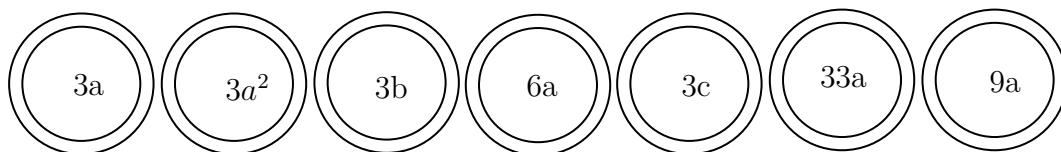
Hi, here in this video you will learn **Addition on expression**

---



*Question: 40* .....

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: 41* .....

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

*Answer:*

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

$$7r^2 + \boxed{\phantom{00}} - 2\boxed{\phantom{00}} = (7 + \underline{\phantom{00}} - 2)r^2 = \underline{\phantom{00}}$$

Question: 42 .....

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 **Solving an equation**

---



**Question: 43** .....

If  $\odot = 5$ , then  $5 \odot + 5 =$  \_\_\_\_\_

**Answer:**

The value of the given smiley  $\odot$  is \_\_\_\_\_.

Substituting the value in the expression  $= 5(\text{---}) + 5 = \text{---} + \text{---} = \text{---}$ .

**Question: 44** .....

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  $7\text{---} + 3 = -4$  Substitute the values (-2, -1, 0, 1, 2) in the circle,

$$7 \times \text{---} + 3 = \text{---}$$

$$7 \times \text{---} + 3 = \text{---}$$

$$7 \times \text{---} + 3 = \text{---}$$

$$7 \times \text{---} + 3 = \text{---}$$

$$7 \times \text{---} + 3 = \text{---}$$

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

**Question: 45** .....

Arrange the terms in the descending order when the value of x is 2.

$$2x \quad 5x \times 1 \quad x + 3 \quad 2x - 4 \quad \frac{1}{2}x$$

**Answer:**

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

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

substituting value of x

$$2x = 2 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$2x - 4 = 2 \times \underline{\hspace{2cm}} - 4 = \underline{\hspace{2cm}}$$

$$x + 3 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\frac{1}{2}x = \frac{1}{2} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$5x \times 1 = 5 \times \underline{\hspace{2cm}} \times 1 = \underline{\hspace{2cm}}$$

Arranging in descending order:  $\underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$ .

Their respective algebraic terms are  $\underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$ .