

LaPIS Diagnostic Test Workbook - Mathematics

Name : Varna R K

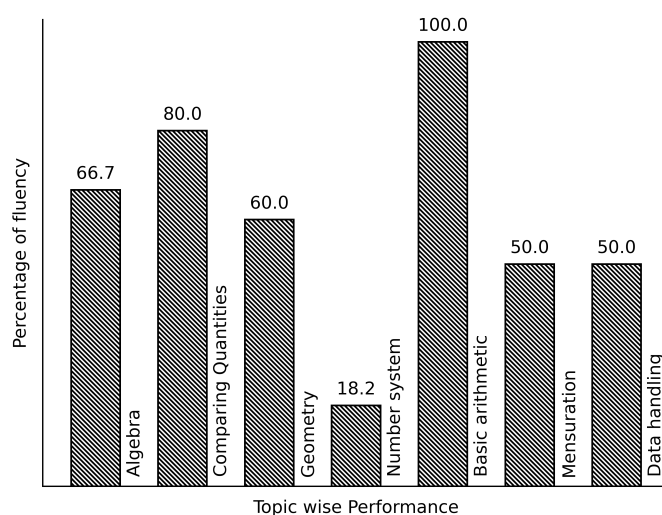
Class : 7

Section : A

School : AKV Public School

Login ID : AKV130

Varna R K's Performance Report



Score: 21/40

Percentage: 52.5%

Varna R K'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

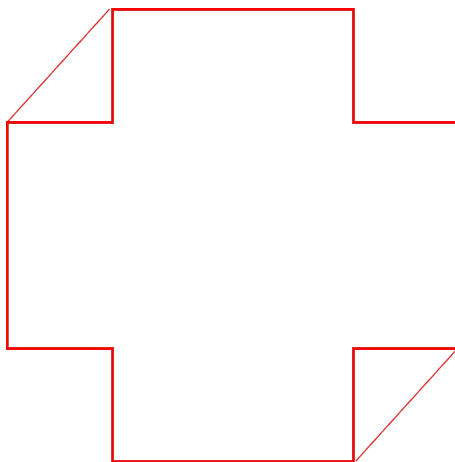
Topics to be Improved	
Perimeter	Perimeter of triangle

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



Question: 1

Highlight the perimeter in the given image.

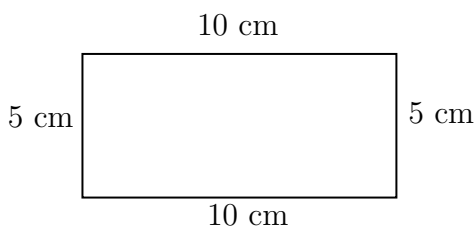


Answer:

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

Question: 2

Find the perimeter of the given figure.



Answer:

Sides of the given shape = _____.

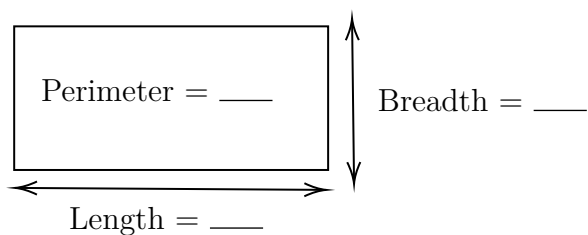
Perimeter of a shape is _____ (sum / difference) of _____ (all/ opposite) sides.

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 = $2(\text{_____} + \text{_____})$.

Therefore, length of the rectangular floor is _____.

Data handling

Topics to be Improved	
Chance of probability	Basis of probability
Range	Finding the range

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



Question: 4

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.

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: 5

Probability of sure events is _____ (greater / smaller) than probability of impossible events.

Answer:

Probability of sure event = _____ (0/ 1/ any number).

Probability of impossible event = _____ (0/ 1/ any number).

Therefore, Probability of sure event _____ Probability of impossible event.

Question: 6

Raju has pencil, an eraser, a scale, sharpener, colour pencil and protractor in his box. What is the probability of getting a pen from his box.

Answer:

Things Raju have _____
Does Raju have pen in his box, _____ (Yes/ No).
Then probability of getting pen from his box is _____ (0/1)

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



Question: 7

Range of the data = _____ - _____

Answer:

The difference between highest value and lowest value is _____.

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

Highest value = _____ , Lowest value = _____ .

Range = _____ - _____ = _____.

Question: 8

Circle the correct range for the following data 31, -20, 35, -38, 29, 0, 43, -25, 51, 14, 9

$$-20 + 51$$

$$\frac{-38-51}{2}$$

$$51 + 38$$

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

Answer:

Range = _____ - _____.

Arranging the data in ascending order, _____

In the given data,

Highest value = _____ , Lowest value = _____ , Range = _____ - _____ = _____

Question: 9

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	
Related angles	Complementary angles
Types of triangle	Basics of types of triangle (sides)
Right angle triangle and pythagoras property	Basics of Pythagoras property
Faces vertex and edges	Identification of faces, edges and vertices

Hi, here in this video you will learn **Related Angles**



Question: 10

1. Two angles are complementary if their sum is equal to _____.
2. Two angles are supplementary if their sum is equal to _____.

Answer:

1. When sum of the two angles is equal to 90° , they are called as _____ angle.
Example : 45° and 45° , _____, and _____.
2. When sum of the two angles is equal to 180° , they are called as _____ angle.
Example : 90° and 90° , _____, and _____.

Question: 11

Shade the complementary angles.

$85^\circ, 95^\circ$	$45^\circ, 45^\circ$	$6^\circ, 84^\circ$	$73^\circ, 107^\circ$	$36^\circ, 64^\circ$	$90^\circ, 90^\circ$
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Answer:

Two angles are said to be complementary if the sum of their angles are equal to _____.

$85^\circ + 95^\circ = \underline{\hspace{2cm}}$ and this is (a / not a) complementary angles.
 $45^\circ + 45^\circ = \underline{\hspace{2cm}}$ and this is angles.
 $6^\circ + 84^\circ = \underline{\hspace{2cm}}$ and this is angles.
 $73^\circ + 107^\circ = \underline{\hspace{2cm}}$ and this is angles.
 $36^\circ + 64^\circ = \underline{\hspace{2cm}}$ and this is angles.
 $90^\circ + 90^\circ = \underline{\hspace{2cm}}$ and this is angles.

Question: 12

Find the complement and supplement of 15° and 90°

Answer:

One angle is (complements / supplements) to other angle, when sum of the two angles is equal to 90° .

One angle is (complements / supplements) to other angle, when sum of the two angles is equal to 180° .

Complement of $15^\circ = \underline{\hspace{2cm}},$

Complement of $90^\circ = \underline{\hspace{2cm}}.$

Supplement of $15^\circ = \underline{\hspace{2cm}},$

Supplement of $90^\circ = \underline{\hspace{2cm}}$

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



Question: 13

Polygon with three sides is called as .

Answer:

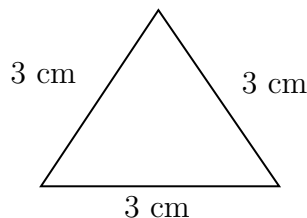
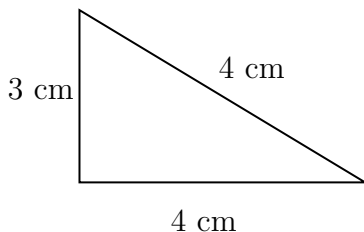
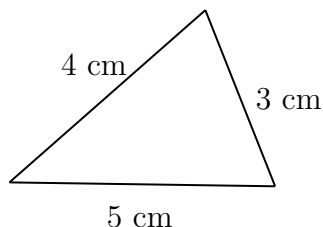
A polygon is a simple (open / closed) curve made up of only line segments.

Polygon with three sides is called .

Draw a diagram of polygon with three sides :

Question: 14

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: 15

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 _____.

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



Question: 16

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

Answer:

Pythagoras theorem is only applicable for _____ triangle.

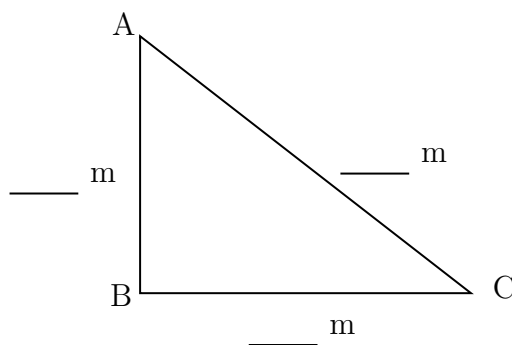
Longest side of the triangle is _____ (hypotenuse/ legs) and other two sides are called _____(hypotenuse/ legs).

Pythagoras theorem states that _____.

Question: 17

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.

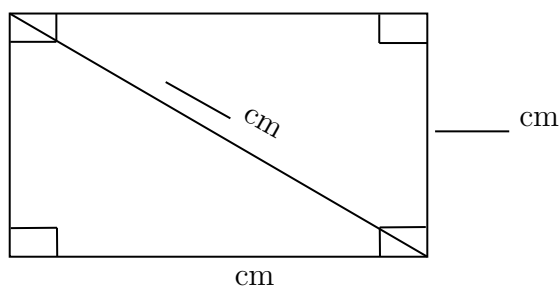
By Pythagoras theorem, $(\text{_____})^2 = (\text{_____})^2 + (\text{_____})^2$
 $\text{_____} = \text{_____} + \text{_____}$

Therefore, hypotenuse of the triangle is _____.

Question: 18

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 **Basics of 3D model**



Question: 19

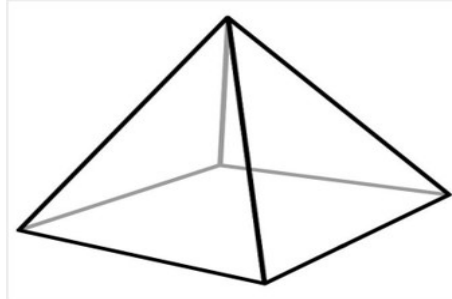
A point at which two or more lines segments meet is called _____(Vertex/ edges/ faces).

Answer:

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

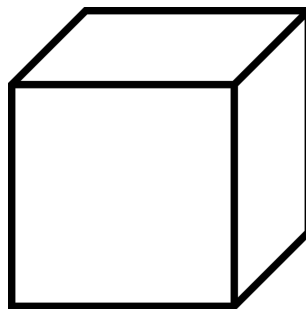
A _____ is a point where two or more line segments meet(Vertex/ edges/ faces).

Mark the vertices in the diagram,



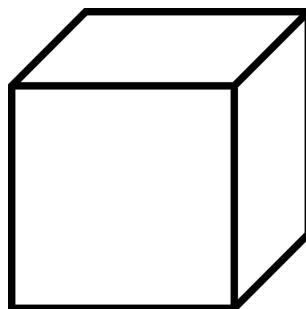
Question: 20

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: 21

How many vertices, edges and faces does dices have?



Answer:

The shape of dice is _____.

Dices have _____ vertices, _____ edges and _____ faces.

Number system

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

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



Question: 22

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, $a + \underline{\hspace{2cm}} = a$
 From the given option _____ satisfies the Identity property.

Question: 23

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: 24

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: 25

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 $= 10 \times \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$
 10 is raised to the power of $\underline{\hspace{2cm}} = (10)\text{---}$

Question: 26

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: 27

(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 **Multiplication on fractions**



Question: 28

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: 29

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 = $\frac{\boxed{}}{\boxed{}} \times \text{_____} = \text{_____}$

Question: 30

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

Improper fraction of $2\frac{7}{4} = \text{_____}$

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

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



Question: 31

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

Answer:

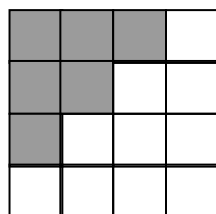
Fractions with same denominators are called _____ (like/ unlike) fractions.

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

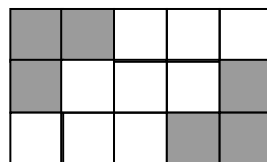
$$\frac{-3}{3} + \frac{1}{3} = \frac{}{3} =$$

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 = _____.

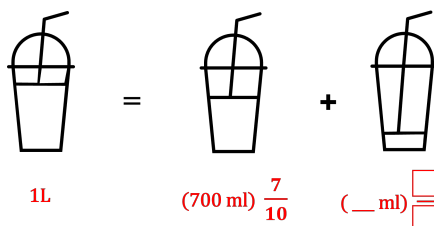
Number of shaded square in box B = _____.

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 = $\frac{7}{10} \times$ _____ 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 **Law of exponents**



Question: 34

$(x)^0$ is equal to _____.

Answer:

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

In $(x)^0$ base = _____
Power = _____

Any number or variable with power zero is equal to _____.
Therefore, $(x)^0$ equal to _____.

Question: 35

- i. $a^m \times a^n =$ _____
ii. $a^m \div a^n =$ _____

Answer:

Multiplication of two numbers with same base with different power, their exponents are _____ (added/ subtracted)

Division of two numbers with same base with different power, their exponents are _____ (added/ subtracted).

Question: 36

Circle the result of the expression $(a^0 \times b^1) + (m^1 \times n^0) + (x^0 \times y^1)$

$a + n + x$ bmy 1 $ab + mn + xy$ 0 anx $b + m + y$

Answer:

Any number with power zero is equal to _____ (One/ Zero).

Any number with power one is equal to _____ (same/ different) number.

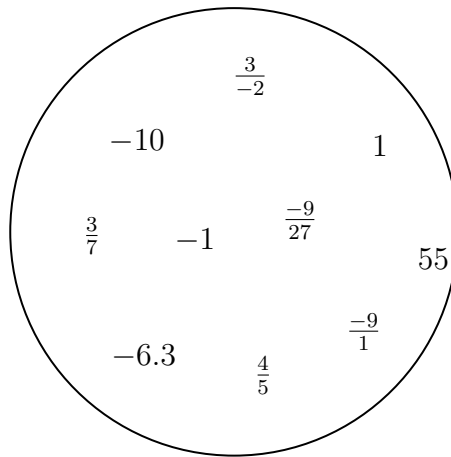
$$\begin{aligned}(a^0 \times b^1) + (m^1 \times n^0) + (x^0 \times y^1) &= (\text{_____}) + (\text{_____}) + (\text{_____}) \\ &= \text{_____} + \text{_____} + \text{_____} \\ &= \text{_____}\end{aligned}$$

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 $\frac{-3}{-4} = \frac{\boxed{}}{\boxed{}}$ 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: _____

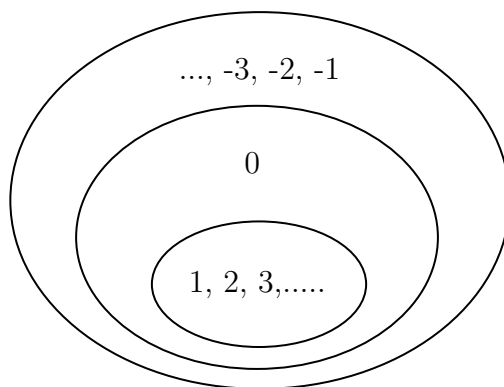
Positive rational number \times Negative rational number = _____ \times _____ = _____ and this is _____ rational number

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



Question: 40

Highlight the ring that contains whole numbers.



Answer:

The numbers inside the inner ring (1, 2, 3,...) 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: 41

Colour the frame of the box which contains the number 1, 4 and -10

Whole numbers	Negative numbers	Integers	Naturals numbers
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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: 42

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 **Operation on rational numbers**



Question: 43

Fill in the boxes to make the given expression correct.

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

Answer:

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

Here, dividend = _____ and divisor = _____

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

Question: 44

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 = _____.

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

Question: 45

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

Answer:

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

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

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

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

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

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

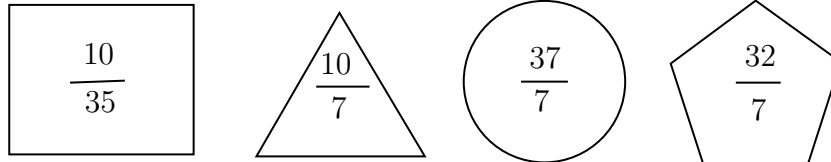
Transposing 16 to other side, the result is _____.

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



Question: 46

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

$$5\frac{2}{7} = \frac{(\text{ } \times \text{ }) + \text{ }}{7} = \frac{\boxed{}}{\boxed{}}$$

Question: 47

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 = _____.

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

Question: 48

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

Answer:

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

$$\frac{12}{40} \div \text{ } = \frac{12}{40} \times \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

Then the answer is _____

Comparing Quantities

Topics to be Improved	
Percentage	Basic of percentage

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



Question: 49

2% can be written as

Answer:

Percentages are numerators of fractions with denominator _____

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

Question: 50

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 $\frac{\boxed{}}{\boxed{}}$

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

Question: 51

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 _____% = _____

Algebra

Topics to be Improved	
Basics of simple equation	Solving of simple equation
subtraction of algebraic expressions	subtraction of algebraic expressions

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



Question: 52

If $\odot = 5$, then $5 \odot + 5 = \underline{\hspace{2cm}}$

Answer:

The value of the given smiley \odot is $\underline{\hspace{2cm}}$.

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

Question: 53

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

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

Answer:

The given equation is $7\underline{\hspace{1cm}} + 3 = -4$ Substitute the values (-2, -1, 0, 1, 2) in the circle,

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

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

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

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

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

Therefore, $\underline{\hspace{1cm}}$ is the number that can be placed in a box to make the equation correct.

Question: 54

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 $\underline{\hspace{2cm}}$.

The value of x is $\underline{\hspace{2cm}}$.

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 $\underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$.

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



Question: 55

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

Answer:

The given two expressions are $\underline{\hspace{2cm}}$ and $\underline{\hspace{2cm}}$.

The two terms will get added only if they are $\underline{\hspace{2cm}}$ (Like/ Unlike) terms.

The sum of two expressions = $\underline{\hspace{2cm}} + \underline{\hspace{2cm}}$.

The answer is $\underline{\hspace{2cm}}$

Question: 56

	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 $\underline{\hspace{2cm}}$

(ii) Total number of students in school B is $\underline{\hspace{2cm}}$

(iii) How many more teachers are there in school B than school A ? $\underline{\hspace{2cm}}$

Answer:

(i) Number of boys in school A = $\underline{\hspace{2cm}}$,

Number of boys in school B = $\underline{\hspace{2cm}}$.

Total number of boys in school A and school B is $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$.

(ii) Number of boys in school B = $\underline{\hspace{2cm}}$,

Number of girls in school B = $\underline{\hspace{2cm}}$.

Total number of students in school B is $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$.

(iii) Number of teachers more in school B than school A = Teachers in school B – Teachers in school A = _____.

Question: 57

Solve the following:

$$\begin{array}{r} 13x + ______ \\ (+) \ 12x + 10y \\ \hline ______ + 25y \\ \hline \end{array}$$

$$\begin{array}{r} 3a - 5b \\ (-) \ 5a - 7b \\ \hline -2a - ______ \\ \hline \end{array}$$

Answer:

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

$$\begin{array}{r} 13x + ______ \\ (+) \ 12x + 10y \\ \hline ______ + 25y \\ \hline \end{array}$$

$$\begin{array}{r} 3a - 5b \\ (-) \ 5a - 7b \\ \hline -2a - ______ \\ \hline \end{array}$$