

# JAMAICA\_7th Grade Math

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- Practice Test
- Test your Skill

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- Test your Skill

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- Example: Express in exponential form
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- Practice Test1
- Test Your Skill

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- MOPS: Exploring Fractions - G4&5
- Example: Represent fractions on Number Line (3)
- Example: Write the fraction for shaded region (1)
- Example: What fraction of circles have X's in them (2)
- Example: Identify fraction as proper or improper (1)
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- Tutorial: Converting Improper Fractions to Mixed Fractions and vice-versa
- MOPS: Converting Improper Fractions to Mixed Numbers and Vice-Versa
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### 3.3 Reducing Fractions to Lowest Terms

- Tutorial: Reducing Fractions to Lowest Terms
- MOPS: Reducing a Fraction to Its Lowest Term
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- Example: What fraction of a day is given hours
- Example: What fraction of an hour is given minutes
- Example: What fraction of given natural numbers are prime numbers?
- Example: Word problem (fraction of stitched dresses)

- Example: Word problem (fraction of CD's received as gift)
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- Example: Choose the equivalent fraction of given fraction
- Example: Word problem (fraction of pencils used)
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### 3.4 Building Equivalent Fractions

- Tutorial: Building Equivalent Fractions
- MOPS:Equivalent Fractions - G5
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- Example: Conversion of one fraction into another by changing numerator (1)
- Example: Build equivalent fraction for given numerator
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### 3.5 Finding the Missing part of Equivalent Fractions

- Tutorial: Finding the Missing part of Equivalent Fractions
- MOPS:Find the Missing Part of the Equivalent Fractions
- Example: Find missing denominator (2)
- Example: Find missing numerator (2)
- Example: Fill in the blank to make equivalent fractions
- Practice Test
- Test Your Skill

### 3.6 Comparing and Listing Fractions in Order

- Tutorial: Comparing and Listing Fractions in Order
- Example: Arrange the given fractions in descending order (1)
- Example: Word problem on comparison of fractions (3)
- Example: Determine the Statement: True/False (2)
- Example: List mixed numbers in ascending order (2)
- Example: Compare the fractions (2)
- Example: Fill in the box with appropriate sign (<, >, =)
- Example: Arrange fractions with same denominator in ascending and descending order
- Example: Arrange fractions with same numerator in ascending and descending order
- Example: Fill in the box with appropriate sign (<, >, =) (using lcm)
- Example: Fill in the box with appropriate sign (<, >, =) (simple comparison)
- Example: Word problem (who read more pages?)
- Example: Comparison of two fractions.
- Practice Test

- Test Your Skill

### 3.7 Adding Fractions

- Tutorial: Adding Fractions
- MOPS: Addition of Fractions (Like fraction)
- MOPS: Addition of Fractions (Two-unlike fraction)
- MOPS: Addition of Fractions (Three-unlike fractions)
- MOPS: Addition of Fractions (Unlike fractions)
- Example: Add the fractions (2)
- Example: Add and reduce the fractions (1)
- Example: Add the fractions (same denominator)
- Example: Word problem on adding fractions (total length of lace)
- Example: Word problem on addition of fractions (amount of money spent)
- Practice Test1
- Test Your Skill

### 3.8 Adding Mixed Fractions

- Tutorial: Adding Mixed Fractions
- Example: Word problem on adding mixed fractions (4)
- Example: Add and reduce the Mixed fractions (2)
- Example: Add the given mixed fractions (using LCM)
- Example: Add the given mixed fractions (2 fractions with same denominator)
- Example: Word problem on adding mixed fractions (total scoops of ice cream)
- Practice Test1
- Test Your Skill

### 3.9 Subtracting Fractions

- Tutorial: Subtracting Fractions
- Example: Word problem on subtraction of fractions (3)
- Example: Subtract the fractions (1)
- Example: Subtract the fractions (1)
- Example: Subtract Fraction from a whole number (1)
- Example: Fill in the missing fraction (same denominator)
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- Example: Evaluate (subtraction using LCM)
- Example: Word problem on subtraction (fraction of cookies left)
- Example: Word problem on addition and subtraction (portion of remaining cake)
- Example: Word problem on subtracting fractions (distance covered)
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- Practice Test1
- Test Your Skill

### 3.10 Subtracting Mixed Fractions

- Tutorial: Subtracting Mixed Fractions
- Example: Subtract whole no. from mixed no.
- Example: Subtract mixed no. from whole no.
- Example: Subtract the Mixed fractions
- Example: Word problem on subtraction (find length of wire)
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- Example: Word problem on subtraction (how much petrol left in the tank).
- Example: Word problem on subtraction (Quantity of milk left)
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- Example: Word problem on subtraction (Quantity of sweets eaten by family)
- Practice Test1
- Test Your Skill

### 3.11 Multiplication of Fractions

- Tutorial: Multiplication of Fractions
- Example: Multiply and reduce the product to its lowest term
- Application: How many members must be present for the meeting to take place?
- Example: Multiply and reduce the product to its lowest term
- Example: Multiply an integer with mixed fraction (3)
- Example: Multiply and reduce the mixed fractions (4)
- Example: Find  $a/b$  of  $c$
- Example: Multiply a proper fraction with mixed fraction
- Example: Multiply a proper fraction with mixed fraction
- Example: Multiply and reduce the mixed fractions
- Example: Multiply and reduce the fractions
- Application: Based on fractions (2)
- Application: Based on fractions (2)
- Application: Based on mixed fractions (2)
- Application: Based on multiplication of fractions
- Example: Word problem based on addition & subtraction of fractions.
- Example: Word problem based on multiplication & subtraction of fractions.
- Practice Test
- Test your Skill

### 3.12 Division of Fractions

- Tutorial: Division of Fractions
- Example: Find the reciprocal (1)
- Example: Divide the fractions (2)
- Example: Divide (2)
- Example: Divide (2)
- Example: Divide an integer by mixed fraction
- Example: Divide the fractions
- Example: Divide a proper fraction by mixed fraction
- Example: Divide the fractions
- Example: Find the fraction if product of fraction & difference of two fractions is given.
- Practice Test
- Test your Skill

## 4. Percents

### 4.1 Understanding Percents

- Tutorial: Understanding Percents
- Example: Find what percent of given figure is shaded (2)
- Example: Find what percent of given figure is shaded (2)
- Example: Application problem based on percentage (1)
- Practice Test
- Test your Skill

### 4.2 Problems on Percentage

- Tutorial: Problems on Percentage
- Example: Find the percentage of the integer (1)
- Example: Application problem based on percentage (2)
- Example: Application problem based on percentage (2)
- Example: Application problem based on percentage (2)
- Example: Find the percent increase in population (2)
- Example: Find the total amount if A% of it is B?
- Example: Find the number whose A% is B
- Application: Find the left amount after deductions (2)
- Application: Find maximum marks if % and marks secured are known (2)
- Application: Word problem based on percentage (2)
- Application: Find the number of boys if number of girls and % of boys are given (3)
- Application: Word problem based on percentage (3)
- Application: Find monthly income if % expenditure is given (3)

- Application: Find number of student before and after increase (3)
- Application: Word problem based on percentage (2)
- Application: How much matches were won by football team?
- Application: Find the salary, given the savings and percent of savings
- Application: Divide chocolates between two persons so that they get a% & b% of them
- Application: Find the percentage decrease of population of a city
- Practice Test
- Test your Skill

## 5. Decimals

### 5.1 Determining Place Values in Decimals

- Tutorial: Determining Place Values in Decimals
- Example1: Identifying the digit for a Given Place Value
- Example2: Identifying the digit for a Given Place Value

### 5.2 Listing Decimals in Order

- Tutorial: Listing Decimals in Order
- Example1: Comparing the Decimal Numbers
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- Example3: Comparing the Decimal Numbers
- Example4: Comparing the Decimal Numbers
- Example5: List Decimal Numbers in Descending Order
- Example6: List Decimal Numbers in Descending Order
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- Application1: List Decimal Numbers in Ascending Order

### 5.3 Addition and Subtraction of Decimals

- Tutorial: Adding Decimals
- Example1: Adding 4 Decimal Numbers
- Example2: Adding 4 Decimal Numbers and Rounding
- Example3: Adding 4 Numbers
- Application1: How much baseboard is needed?
- Tutorial: Subtracting Decimals
- Example1: Subtracting Decimals
- Application1: Amount left in bank

### 5.4 Multiplication and Division of Decimals

- Tutorial: Multiplying Decimals

- Example1: Multiplication of Decimals
- Example2: Multiplication of Decimals
- Example3: Multiplication of decimal by whole number
- Example4: Multiplication of Decimals and Rounding
- Example5: Multiplying 3 Decimal Numbers
- Application1: Dimension Problem
- Tutorial: Dividing Decimals by Whole Numbers
- Example1: Dividing Decimal by Whole Number
- Example2: Dividing Decimal by Whole Number
- Example3: Dividing Decimal by Whole Number & Rounding
- Application1: Tip Problem
- Tutorial: Dividing Decimals by Decimals
- Example1: Dividing Decimals
- Example2: Dividing Decimals
- Example3: Dividing Decimals and Rounding
- Application1: Speed Problem

### 5.5 Rounding Decimals

- Tutorial: Rounding Decimals
- Example1: Round the Decimal Number to nearest Thousandth
- Example2: Round the Decimal Number to nearest Ten
- Example3: Round the Decimal Number to nearest Whole Number
- Example4: Round the Decimal Number to nearest Unit
- Application1: Tax Problem

### 5.6 Converting Fractions to Percents and Vice-Versa

- Tutorial: Converting Fractions to Percents
- Example1: Changing Fraction to Percent
- Example2: Changing Mixed Fraction to Percent and round the answer
- Example3: Changing Fraction to Percent and round to the nearest tenth of a percent
- Example4: Changing mixed number to Percent and round to the nearest tenth of a percent
- Application1: Write the fraction of students who received an A on the final examination

### 5.7 Converting Decimals to Fractions and Vice-versa

- Tutorial: Converting Decimals to Fractions
- Tutorial: Converting Special Fractions to Decimals
- Tutorial: Converting Fractions to Decimals
- Example1: Changing Decimal to Fraction or Mixed Number
- Example2: Changing Decimal to Fraction or Mixed Number

- Application1: Determine the size (as fraction) of wrench needed to remove the bolt
- Example1: Converting Fraction to Decimal
- Example2: Converting Fraction to Decimal and Rounding
- Example1: Changing Fraction to Decimal
- Example2: Changing Fraction to Decimal
- Example3: Changing Fraction to Decimal

## 5.8 Converting Decimals to Percents and Vice-versa

- Tutorial: Converting Decimals to Percents
- Tutorial: Converting Percents to Decimals
- Example1: Writing decimal as a percent
- Example2: Writing Number as a percent
- Example1: Convert percent to decimal
- Example2: Convert percent to decimal and round the answer
- Application1: Convert percent to decimal

## 6. Sets

### 6.1 Sets and Set Notations

- Tutorial: Sets and Set Notations
- Example: Write a given set in list form.(1)
- Example: Write a given set in list form.(1)
- Example: Write a given set in list form.(1)
- Example: Write a given set in list form.(1)
- Example: Write a given set in set-builder form.(2)
- Example: Write a given set in set-builder form.(2)
- Practice Test
- Test Your Skill

### 6.2 Types of Sets

- Tutorial: Types of Sets
- Example: Identify the given set as finite, infinite or empty set.(1)
- Example: Identify the given set as finite, infinite or empty set.(1)
- Example: Find which pair of sets are disjoint & which are overlapping.(2)
- Practice Test
- Test Your Skill

### 6.3 Subsets

- Tutorial: Subsets
- Example: Identify T/F for the given statement.(1)

- Example: Identify T/F for the given statement.(1)
- Example: Identify T/F for the given statement.(1)
- Example: Identify T/F for the given statement.(1)
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- Test Your Skill

#### 6.4 Operations on Sets

- Tutorial: Operations on Sets
- Example: Find union and intersection of the given sets.(2)
- Example:  $n(A)$  ,  $n(B)$ ,  $n(A \cap B)$  is given ,find  $n(A \cup B)$ .(1)
- Practice Test
- Test Your Skill

#### 6.5 Venn Diagrams

- Tutorial: Venn Diagrams

### 7. Measurement

#### 7.1 Units- Weight, Length, Volume

- Tutorial: Units- Weight, Length, Volume
- Example: Convert weight units (1)
- Example: Convert length units (1)
- Example: Convert capacity units (1)
- Practice Test
- Test your Skill

#### 7.2 Multiplying and Dividing Measurements by Numbers

- Tutorial: Multiplying and Dividing Measurements by Numbers
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- Example2: Multiply a Measurement by a Number
- Example3: Dividing a Measurement by a Number
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#### 7.3 Adding and Subtracting Measurements

- Tutorial: Adding and Subtracting Measurements
- Example1: Adding Measurements of same Unit
- Application1: Adding and Subtracting Measurements

## 8. Perimeter and Area

### 8.1 Perimeter: Rectangle, Square and Equilateral triangle

- Tutorial: Perimeter: Rectangle, Square and Equilateral triangle
- Example: Find the perimeter of polygon (1)
- Example: Find the perimeter of rectangle, when its dimensions are given (1)
- Example: Find the perimeter of square, whose side is given (1)
- Example: Find the perimeter of equilateral triangle, whose side is given (1)
- Example: Application: Perimeter of rectangle and cost of fencing (2)
- Example: Application based on perimeter of square whose side is given (2)
- Example: Find side of hexagon, when perimeter is given (3)
- Example: Find length of rectangle, when perimeter and width are given (3)
- Example: Find the perimeter of rectangle, when its dimension are given (4)
- Example: To find the length of a field from the given data (5)
- Example: Find side of square given perimeter (2)
- Example: Find 3rd side given 2 sides & perimeter of triangle (1)
- Example: Find perimeter of regular polygon with side of given measure
- Example: Given perimeter find side of a square
- Example: Word problem on perimeters of square and rectangle
- Example: Find cost of fencing a square park of given side
- Example: Word problem on perimeter of square (slabs of given side arranged in a square)
- Example: Find length of tape to seal lid of rectangular box
- Example: Find perimeter of table top (dimension in m and cm)
- Example: Find length of wire to fence rectangular land (dimensions in decimals)
- Example: Find perimeter of given figures
- Example: Find perimeter of triangle of given sides
- Practice Test1
- Practice Test2
- Test your Skill

### 8.2 Area: Rectangle and Square

- Tutorial: Area: Rectangle and Square
- Example: Find area of rectangle, when its dimensions are given (1)
- Example: Find area of square, when its side is given (1)
- Example: Find the area of given figure (4)
- Example: Find the breadth of rectangle, when area and length are given (3)
- Example: Find perimeter of square, when area is given (4)
- Example: Find area of square when its perimeter is given (4)
- Example: Word problem based on area and cost of rectangle (2)
- Example: Word problem based on area and cost of rectangle (3)

- Example: Application: Problems based on area of rectangle and area of square (4)
- Example: Application: Problems based on area of rectangle and area of square (4)
- Example: Find area of given figure by counting squares
- Example: Find area of given figure by counting squares
- Example: Find area of given figures (split into rectangles)
- Example: Find no. of tiles of given dimension required to fit the given region
- Example: Find area of rectangular table in square metres (dimensions in m and cm)
- Example: Find area of given figure (by splitting into rectangles)
- Example: Find area of given figure by counting squares
- Practice Test
- Test your Skill

### 8.3 Area of Triangle

- Tutorial: Area of Triangle
- Example: Find the area on closed by the given triangle in the figure (1)
- Example: Find height of right triangle whose area and base are given (2)
- Example: Based on area of triangle (2)
- Example: Given the area and ht. of a triangle, find its base
- Example: Given the area and base of a triangle, find its height
- Example: Given the area and base of a parallelogram, find its height
- Example: Find the area of an isosceles triangle given its base and height
- Practice Test
- Test your Skill

## 9. Time and Temperature

### 9.1 Convert Temperatures from Celsius to Fahrenheit

- Tutorial: Convert Temperatures from Celsius to Fahrenheit
- Example: Convert 'Fahrenheit' to 'Celsius'
- Example: Convert 'Fahrenheit' to 'Celsius' & vice-versa

## 10. Visualising Solid Shapes

### 10.1 Three Dimensional Shapes

- Tutorial: Three Dimensional Shapes
- Example: Find no. of faces, edges & vertices (2)

### 10.2 Drawing Solids on Flat Surface

- Tutorial: Drawing Solids on Flat Surface

### 10.3 Viewing Solids

- Tutorial: Viewing Solids
- Example: Identify the front, top and side views of the given figure (3)

## 11. Basic Geometrical Ideas

### 11.1 Geometry Terminology

- Tutorial: Geometry Terminology
- Example: Count the no. of points & line segments in the given figure (1)
- Example: Identify if the lines are intersecting or parallel in given figure (1)
- Example: Count number of rays in given figure (1)
- Example: Name line segments & rays in given figure (2)
- Practice Test
- Test your Skill

### 11.2 Geometrical Shapes

- Tutorial: Geometrical Shapes
- Example: Determine if given curve is open or closed (1)
- Example: Identify the line segments & angles in the given figure (2)
- Example: Name the points in the exterior of the given angle (2)
- Example: Identify the name of shaded region (2)
- Example: Identify the name of the part of the circle (2)
- Example: Count no. of quadrilaterals in given figure (2)
- Example: Count no. of triangles in given figure (2)
- Example: Name vertex & arms of given angle (2)
- Example: Fill in the blanks (1)
- Practice Test1
- Practice Test2
- Practice Test3

### 11.3 Measuring Line Segments

- Tutorial: Measuring Line Segments
- Example: Identify the longest & shortest line segment & name the angles (2)
- Example: Measuring line segments and identification of longer line segment (1)

### 11.4 Types of Angles and Measuring Angles

- Tutorial: Types of Angles and Measuring Angles
- Example: Identify the type of angle (1)
- Example: Count the number of acute and right angles (2)

- Example: Count the number of right angles using hour hand of the clock (3)
- Example: Measure the angle using protractor (2)
- Example: Count the no. of right angles using the directions (North, East, South, West) (3)
- Example: Problems based on clock hand and angles (4)
- Example: Problems based on the revolution using directions (4)
- Example: Find fraction of a revolution turned by hour hand of clock
- Example: Where will hand of clock stop after making given fraction of revolution
- Example: Find the direction you face after making given fraction of revolution
- Example: Describe the given lines in symbolic form
- Example: Describe the given lines in symbolic form
- Example: Determine whether the following is a model for perpendicular lines
- Example: Study the diagram. State whether the given condition is true or not
- Example: Line segment PQ is perpendicular to line segment XY. Find measure of angle QAX
- Practice Test
- Test Your Skill

## 12. Polygons

### 12.1 Introduction

- Tutorial: Introduction
- Example: Find side opposite vertex & vice-a-versa (1)
- Example: Find the median and altitude of the given triangle
- Practice Test

### 12.2 Classification of Triangle

- Tutorial: Classification of Triangle
- Example: Find the value of x in the given isosceles triangle
- Example: Find the value of x in the given isosceles triangle
- Example: Find the value of x in the given figure
- Example: Find the value of x in the given figure
- Example: Determine the type of triangle
- Example: Does the given set of angles form a triangle
- Practice Test

### 12.3 Properties of Triangles

- Tutorial: Properties of Triangles
- Example: Problem based on interior opposite angles and exterior angle of triangle (2)
- Example: Problem based on interior opposite angles and exterior angle of triangle (2)
- Example: Find the value of x from the given figure
- Example: Find the value of x from the given figure

- Example: Can we have triangle with given sides (3)
- Example: Measure the third side of a triangle when two of its sides are given (2)
- Example: Find 2 angles of isosceles triangle given 1 angle (2)
- Example: Problem based on isosceles triangles (1)
- Example: Find the value of x from the given figure (5)
- Example: Find the value of x and y from the given figure (2)
- Example: Find x, y in given figure (2)
- Example: Find x, y from the given figure (4)
- Example: Find the value of x (exterior angle) from the given figure
- Example: Find the value of x from the given figure
- Example: Find the value of x and y from the given figure
- Example: Find the angles of a triangle given their ratios
- Example: Find the angles of a triangle given relation among them
- Example: Find the measure of angle A of  $\triangle ABC$  given  $\angle A = \angle B + \angle C$
- Example: Find the angles of a triangle given one angle & two of its angles are equal
- Example: Find the acute angle of a right angled triangle given one angle
- Example: Find the measure of third angle of a triangle given other two angles
- Example: Find the vertical angle of an isosceles triangle given base angles
- Example: Find the angles of a triangle given one angle & ratio of other two angles
- Example: Find the angles of a triangle
- Example: Find the angles of a triangle
- Practice Test1
- Practice Test2
- Practice Test3
- Practice Test4
- Test your Skill

## 13. Circle

### 13.1 Circle and its Associated Terms

- Tutorial: Circle and its Associated Terms
- Example: Find radius when diameter is given.(1)
- Example: Find diameter when radius is given.(1)
- Practice Test

### 13.2 Constructing Circle when Radius is given

- Tutorial: Constructing Circle when Radius is given

## 14. Algebra

### 14.1 Translate Phrases and Statements into Expressions and Equations

- Tutorial: Translate Phrases and Statements into Expressions and Equations
- Example: Translate the following into algebraic expression (1)
- Example: Express the following in form of equation (2)
- Example: Translate into algebraic expression (3)
- Example: Translate given statement into an equation
- Example: Form an equation for the given situation
- Example: Form an equation for the given situation
- Example: Form an equation for the given situation
- Example: Form an equation for the given situation
- Practice Test

## 14.2 Algebraic Expressions

- Tutorial: Algebraic Expressions
- Example: Identify the numerical coefficient and variable part of the given term
- Example: Determine the degree, terms and coefficients of the following polynomial
- Example: What is the coefficient of  $y$  in the given expression
- Example: Identify the given expression as monomial, binomial or trinomial
- Example: What is the coefficient of  $x$  in the given expression
- Example: What is the coefficient of  $x$  in the given expression
- Example: What is the coefficient of  $y^2$  in the given expression
- Example: Identify the terms of the given expression
- Example: Match the expression with their mathematical statement
- Example: State whether the terms are like or unlike
- Example: Give two examples of like terms to make three like terms
- Example: Give two examples of unlike terms to make three unlike terms
- Practice Test1
- Practice Test2
- Test your Skill

## 14.3 Simplifying Algebraic Expressions

- Tutorial: Simplifying Algebraic Expressions
- Example: Simplify by combining like terms (1)
- Example: Simplify the expression (5)
- Example: Simplify the expression (5)
- Example: Add the polynomials (2)
- Example: Add the polynomials (2)
- Example: Add the polynomials (2)
- Example: Problems based on subtraction of quadratic equations (2)
- Example: Subtract the polynomials (3)
- Example: Subtract the polynomials (3)

- Example: Subtract the polynomials (3)
- Example: Subtract the polynomials (3)
- Example: Problems based on perimeter of triangle (2)
- Example: Add the polynomials (2)
- Example: Application based on polynomials (4)
- Example: Subtract  $axy$  from  $bxy$  (1)
- Example: Subtract  $-ax^n$  from  $bx^n$
- Example: Simplify by adding like terms
- Example: Add the given terms
- Example: Add the given terms
- Example: Identify the group of like terms
- Example: Subtract  $ax^2 + bx - c$  from  $dx^2 + ex - f$
- Example: Subtract given polynomial from sum of two polynomials
- Example: Subtract  $ax^2 + bx - c$  from  $dx^2 - ex - f$ . Add another polynomial to it
- Example: Simplify the given algebraic expression
- Practice Test
- Test your Skill

#### 14.4 Evaluating Algebraic Expressions

- Tutorial: Evaluating Algebraic Expressions
- Example: Compute the expression when the value of variable is given (1)
- Example: Compute the expression for the given value of variable (2)
- Example: Compute the expression when value of variable is known (1)
- Example: Compute the expression for given value of variable (3)
- Example: Find the value of  $x^2 - 2x - 100$  for given value of  $x$
- Example: Simplify the expression and find its value for given value of  $x$  &  $y$
- Example: Find the value of "a", given the value of expression for given  $x$
- Example: Find the value of given expression for given value of  $a$  &  $b$
- Practice Test1
- Practice Test2
- Test your Skill

#### 14.5 Understanding Equations

- Tutorial: Understanding Equations
- Example: Check if given value of variable is a solution of given equation (1)
- Example: Check if given value of variable is a solution of given equation (1)
- Practice Test
- Test your Skill

## 14.6 Solving Equations

- Tutorial: Solving Equations
- Example: Solve the given equation for x (1)
- Example: Solve the given equation for x (3)
- Example: Solve the given equation for x (1)
- Example: Solve the given equation for y (2)
- Example: Solve for p:  $p/a = b$
- Example: Solve for p:  $(ap)/b = c$
- Practice Test
- Test your Skill

## 14.7 Solving Equations of the Type $ax + b = c$

- Tutorial: Solving Equations of the Type  $ax + b = c$
- Example: Solve the given equation for x (4)
- Example: Solve the given equation for p (4)
- Example: Solve the given equation for x (5)
- Practice Test
- Test your Skill

## 14.8 Applications of Linear Equation

- Tutorial: Applications of Linear Equation
- Example: Find the largest number, given sum of 3 consecutive natural numbers
- Example: Solve the given linear equation problem based on number
- Application: Solve the given linear equation problem based on numbers (1)
- Application: Solve the given linear equation problem based on numbers (2)
- Application: Solve the given linear equation problem based on numbers (3)
- Application: Solve the given linear equation problem based on numbers (1)
- Application: Solve the given linear equation problem based on age (3)
- Application: Solve the given linear equation problem based on money (5)
- Application: Solve the given linear equation problem based on consecutive numbers (2)
- Application: Solve the given linear equation problem based on ratio (2)
- Application: Solve the word problem based on linear equation (4)
- Application: Find the base angle of a triangle given its vertex angle
- Application: Find the number of fruit trees given the total no. of trees in the garden
- Application: Solve the riddle
- Application: Find the score given average score
- Application: Age Problem
- Application: Age Problem
- Application: Solve the given linear equation problem based on scores

- Application: Find the number of mangoes in the box
- Application: Find the angles of a triangle
- Application: Find the sides of an equilateral triangle given its perimeter
- Application: Find the cost of TV set and A.C, given their combined cost
- Application: Distribute the given amount of money among two friends
- Practice Test
- Test your Skill

## **15. Statistics and Probability**

### **15.1 Statistics**

- Tutorial: Statistics

### **15.2 Probability**

- Tutorial: Chance and Probability
- Example: Find the probability of getting odd number if dice is thrown once (1)
- Example: Application: Based on probability (3)
- Example: Find the probability of selecting a girl, given out of 'x' boys & 'y' girls (3)
- Example: Find the probability of getting a prize winning ticket from the given (2)
- Example: Application based on probability (1)
- Example: Find the probability of the pointer stopping on a point in the given spinning wheel
- Example: Application based on probability
- Example: Find the probability of getting a prime number when a die is thrown
- Example: Application based on probability
- Example: Application based on probability
- Practice Test
- Test Your Skill