Mathematics

What is the value of π (pi) approximately?

A. 2.14

**B. 3.14**

C. 4.14

D. 5.14

What is the least common multiple (LCM) of 6 and 9?

A. 12

**B. 18**

C. 24

D. 36

What is the term for a number that has no fractions or decimals?

A. Rational number

B. Irrational number

**C. Whole number**

D. Imaginary number

What is the shape of the graph of a quadratic equation?

A. Line

**B. Parabola**

C. Circle

D. Ellipse

What do you call an angle greater than 90° but less than 180°?

A. Acute angle

B. Right angle

**C. Obtuse angle**

D. Reflex angle

What is the cube root of 64?

A. 2

B. 3

**C. 4**

D. 8

How many sides does a dodecagon have?

A. 10

**B. 12**

C. 14

D. 16

What is the sum of the interior angles of a triangle?

A. 90°

**B. 180°**

C. 270°

D. 360°

What do you call the longest side of a right triangle?

A. Base

B. Height

**C. Hypotenuse**

D. Radius

What is 45÷0.5?

A. 22.5

B. 45

**C. 90**

D. 100

What is the term for a number divisible by only 1 and itself?

A. Composite number

**B. Prime number**

**C. Rational number**

D. Irrational number

How many degrees are in a straight angle?

A. 90°

B. 120°

**C. 180°**

D. 360°

What is the name of a polygon with 8 sides?

A. Hexagon

**B. Octagon**

C. Decagon

D. Nonagon

What is the next number in the sequence: 3, 6, 12, 24, 48?

A. 56

B. 60

C. 72

**D. 96**

What is the area formula for a circle?

**A. πr²**

B. 2πr

C. πr

D. ½bh

What is the name of a triangle where all sides are of different lengths?

A. Scalene triangle

**B. Isosceles triangle**

C. Equilateral triangle

D. Right triangle

What is 40% of 70?

**A. 28**

B. 24

C. 32

D. 21

What is 6⁰?

A. 0

B. 6

**C. 1**

D. 3

What is the value of 10³?

A. 10

B. 100

**C. 1,000**

D. 10,000

Answer: C

What is the probability of flipping a coin and getting heads?

A. 0%

B. 25%

**C. 50%**

D. 100%

Which branch of mathematics studies shapes, sizes, and dimensions?

A. Algebra

**B. Geometry**

C. Calculus

D. Statistics

What is 8!÷(8−1)!?

A. 7

**B. 8**

C. 56

D. 64

If a triangle has angles of 60° and 40°, what is the third angle?

A. 60°

B. 70°

**C. 80°**

D. 90°

What is the value of √81 ×2?

A. 12

B. 16

**C. 18**

D. 27

What is the formula for the perimeter of a rectangle?

**A. 2l + 2w**

B. 2l+2w

C. l × w

D. ½ 2lw

What is the square root of 81?

A. 7

B. 8

**C. 9**

D. 10

What is the term for a fraction where the numerator is larger than the denominator?

A. Proper fraction

**B. Improper fraction**

C. Mixed number

D. Decimals

What is 25% of 160?

A. 20

B. 30

**C. 40**

D. 50

What is the perimeter of a rectangle with sides 7 cm and 10 cm?

A. 17 cm

**B. 34 cm**

C. 70 cm

D. 140 cm

What is the greatest common divisor (GCD) of 24 and 36?

A. 6

B. 8

**C. 12**

D. 18

If a rectangle has an area of 24 m² and one side is 6 m, what is the other side?

A. 2 m

B. 3 m

**C. 4 m**

D. 5 m

If a car travels at 60 km/h for 2.5 hours, how far does it travel?

A. 120 km

**B. 150 km**

C. 180 km

D. 200 km

If the perimeter of a square is 36 cm, what is the length of one side?

A. 6 cm

B. 8 cm

**C. 9 cm**

D. 12 cm

A rectangle has a length of 12 cm and a width of 5 cm. What is its diagonal?

A. 12 cm

**B. 13 cm**

C. 14 cm

D. 15 cm

How many edges does a cube have?

A. 6

B. 8

**C. 12**

D. 14

What is the sum of the exterior angles of any polygon?

A. 180°

**B. 360°**

C. 540°

D. It depends on the polygon.

If a train travels 300 km in 5 hours, what is its average speed?

A. 50 km/h

B. 55 km/h

**C. 60 km/h**

**D**. 65 km/h

If x+5=15, what is 3x?

A. 20

B. 25

**C. 30**

D. 35

How many faces does a rectangular prism have?

A. 4

**B. 6**

C. 8

D. 12

If 8x=64, what is x+4?

A. 8

B. 10

**C. 12**

D. 14

What is the least common multiple (LCM) of 4 and 10?

A. 12

**B. 20**

C. 30

D. 40

If a box has a volume of 24cm³ and a base area of 6cm² , what is its height?

A. 2 cm

B. 3 cm

**C. 4 cm**

D. 5 cm

How many diagonals can be drawn in a pentagon?

A. 3

**B. 5**

C. 7

D. 10

What is the term for the distance around a circle?

A. Diameter

B. Radius

**C. Circumference**

D. Arc

What is the sum of the probabilities of all possible outcomes of an event?

A. 0

B. 0.5

**C. 1**

D. Depends on the event

What is the value that appears most often in a data set?

**A. Mode**

B. Median

C. Mean

D. Range

What do we call the point where the x-axis and y-axis intersect in a Cartesian plane?

A. Midpoint

**B. Origin**

C. Vertex

D. Intersection point

What is the mathematical term for a part of a line with two endpoints?

**A. Line segment**

B. Ray

C. Vector

D. Chord

What is the term for a number’s distance from zero on a number line?

A. Opposite

**B. Absolute value**

C. Reciprocal

D. Magnitude

What do we call a sequence of numbers where each term is the sum of the two preceding ones?

A. Arithmetic sequence

B. Geometric sequence

**C. Fibonacci sequence**

D. Harmonic sequence