2cool4school - Grade 7 Mathematics Worksheet

Q1 - Mathematics - Spatial Sense Geometric and Spatial Reasoning

Which of the following shapes has both plane and rotational symmetry?

1. Square
2. Rectangle
3. Equilateral Triangle
4. Circle

Q2 - Mathematics - Spatial Sense Geometric and Spatial Reasoning

What is the top view of a cylinder?

1. Rectangle
2. Circle
3. Oval
4. Square

Q3 - Mathematics - Spatial Sense Geometric and Spatial Reasoning

Which transformation involves resizing a shape while maintaining its proportions?

1. Translation
2. Rotation
3. Reflection
4. Dilation

Q4 - Mathematics - Spatial Sense Geometric and Spatial Reasoning

What is the result of reflecting a point (3, 4) over the y-axis?

1. (-3, 4)
2. (3, -4)
3. (-3, -4)
4. (4, 3)

Q5 - Mathematics - Spatial Sense Geometric and Spatial Reasoning

A shape is rotated 90 degrees clockwise around the origin. Which transformation is this?

1. (x, y) (y, -x)
2. (x, y) (-x, -y)
3. (x, y) (-y, x)

4. (x, y) (x, -y)

Q6 - Mathematics - Spatial Sense Geometric and Spatial Reasoning

Which solid has one base that is a polygon and triangular faces that meet at a common point?

1. Prism
2. Cylinder
3. Pyramid
4. Cone

Q7 - Mathematics - Spatial Sense Geometric and Spatial Reasoning

What is the image of point (5, -2) after a 180-degree rotation about the origin?

1. (-5, 2)
2. (5, 2)
3. (-5, -2)
4. (5, -2)

Q8 - Mathematics - Operations Multiplication and Division

What is the product of 7 and 8?

1. 54
2. 56
3. 64
4. 58

Q9 - Mathematics - Operations Multiplication and Division

What is 144 divided by 12?

1. 10
2. 11
3. 12
4. 13

Q10 - Mathematics - Operations Multiplication and Division

What is the greatest common factor (GCF) of 36 and 48?

1. 6

2. 8

3. 12

4. 18

Q11 - Mathematics - Operations Multiplication and Division

What is the lowest common multiple (LCM) of 5 and 7?

1. 35

2. 70

3. 14

4. 21

Q12 - Mathematics - Operations Multiplication and Division

Simplify: 3^3

1. 6

2. 9

3. 27

4. 81

Q13 - Mathematics - Operations Multiplication and Division

Multiply: 2/3 3/4

1. 1/2

2. 1/4

3. 1/3

4. 2/5

Q14 - Mathematics - Operations Multiplication and Division

Divide: 5/6 2/3

1. 5/9

2. 5/4

3. 4/5

4. 9/5

Q15 - Mathematics - Operations Multiplication and Division

Multiply: 0.7 0.5

1. 0.35
2. 0.07
3. 0.75
4. 0.5

Q16 - Mathematics - Operations Multiplication and Division

Divide: 0.9 0.3

1. 0.3
2. 0.6
3. 3
4. 6

Q17 - Mathematics - Operations Multiplication and Division

What is the reciprocal of 4/5?

1. 5/4
2. 4/5
3. 1/4
4. 1/5

Q18 - Mathematics - Operations Multiplication and Division

Simplify: 2^4

1. 8
2. 16
3. 32
4. 64

Q19 - Mathematics - Data Data Literacy

Why are percentages commonly used to represent the distribution of a variable in large data sets?

1. Percentages simplify comparisons across different groups.
2. Percentages are more accurate than raw numbers.
3. Percentages eliminate the need for units.
4. Percentages are easier to calculate.

Q20 - Mathematics - Data Data Literacy

Which method is best for collecting qualitative data to answer questions of interest?

1. Conducting surveys with open-ended questions.
2. Measuring temperature changes.
3. Counting the number of students in a class.
4. Recording daily rainfall amounts.

Q21 - Mathematics - Data Data Literacy

What is the primary purpose of organizing qualitative data?

1. To identify patterns and themes.
2. To calculate averages.
3. To determine exact measurements.
4. To perform statistical tests.

Q22 - Mathematics - Data Data Literacy

Which type of graph is most suitable for displaying the distribution of a categorical variable?

1. Bar graph.
2. Line graph.
3. Scatter plot.
4. Histogram.

Q23 - Mathematics - Data Data Literacy

When collecting continuous quantitative data, which of the following is an appropriate method?

1. Measuring the height of students in centimeters.
2. Counting the number of books in a library.
3. Recording the number of red cars in a parking lot.
4. Listing the types of fruits in a basket.

Q24 - Mathematics - Data Data Literacy

Why is it important to include proper sources, titles, and labels when displaying data in graphs?

1. To ensure clarity and understanding of the data presented.
2. To make the graph look more professional.
3. To add more information to the graph.
4. To fill up empty space on the graph.

2cool4school - Grade 7 Mathematics Worksheet

Q25 - Mathematics - Operations Properties and Relationships

What is the result of 3 + 5 2?

1. 16
2. 13
3. 10
4. 8

Q26 - Mathematics - Operations Properties and Relationships

Simplify the expression: 4 (6 + 2).

1. 32
2. 24
3. 20
4. 18

Q27 - Mathematics - Operations Properties and Relationships

Which property is illustrated by the equation: 7 + 0 = 7?

1. Commutative Property
2. Associative Property
3. Identity Property
4. Distributive Property

Q28 - Mathematics - Operations Properties and Relationships

Evaluate: (8 2) (3 + 1).

1. 16
2. 12
3. 10
4. 8

Q29 - Mathematics - Operations Properties and Relationships

What is the result of 5 - 3 + 2?

1. 0
2. 4
3. 2

4. 3

Q30 - Mathematics - Operations Properties and Relationships

Simplify: 3/4 + 1/4 2.

1. 1
2. 1.5
3. 2
4. 2.5

Q31 - Mathematics - Operations Properties and Relationships

Which property is shown by: 2 (3 4) = (2 3) 4?

1. Commutative Property
2. Associative Property
3. Identity Property
4. Distributive Property

Q32 - Mathematics - Operations Properties and Relationships

Calculate: 50% of 80.

1. 30
2. 40
3. 50
4. 60

Q33 - Mathematics - Operations Properties and Relationships

Simplify the expression: 5 2 + 3 4.

1. 26
2. 23
3. 22
4. 20

Q34 - Mathematics - Operations Properties and Relationships

Which property is illustrated by: 6 + 9 = 9 + 6?

1. Commutative Property

2. Associative Property

3. Identity Property

4. Distributive Property

Q35 - Mathematics - Operations Properties and Relationships

Evaluate: 7 - (2 + 3) 4.

1. -13

2. -9

3. 9

4. 13

Q36 - Mathematics - Operations Properties and Relationships

Simplify: 2/3 (3/4 + 1/4).

1. 1

2. 2/3

3. 1/2

4. 3/4

Q37 - Mathematics - Operations Properties and Relationships

What is the result of 20% of 150?

1. 20

2. 25

3. 30

4. 35

Q38 - Mathematics - Operations Properties and Relationships

Which property is shown by: 4 (5 + 6) = 4 5 + 4 6?

1. Commutative Property

2. Associative Property

3. Identity Property

4. Distributive Property

Q39 - Mathematics - Operations Properties and Relationships

Evaluate: (9 - 3) (2 + 1).

1. 1
2. 2
3. 3
4. 4

Q40 - Mathematics - Spatial Sense Measurement

What is the relationship between volume and capacity?

1. Volume measures the amount of space an object occupies; capacity measures the amount a container
2. Volume and capacity are the same.
3. Volume is always larger than capacity.
4. Capacity is only used for liquids, volume for solids.

Q41 - Mathematics - Spatial Sense Measurement

How many milliliters are in 1 cubic centimeter?

1. 10
2. 100
3. 1
4. 0.1

Q42 - Mathematics - Spatial Sense Measurement

Convert 2500 milliliters to liters.

1. 2.5 liters
2. 25 liters
3. 0.25 liters
4. 250 liters

Q43 - Mathematics - Spatial Sense Measurement

If the perimeter of a square is 20 cm, what is the length of one side?

1. 4 cm
2. 5 cm
3. 10 cm
4. 20 cm

Q44 - Mathematics - Spatial Sense Measurement

A rectangle has a length of 10 cm and a width of 5 cm. What is its area?

1. 50 cm
2. 25 cm
3. 15 cm
4. 100 cm

Q45 - Mathematics - Spatial Sense Measurement

Convert 5 meters to centimeters.

1. 50 cm
2. 500 cm
3. 5000 cm
4. 0.5 cm

Q46 - Mathematics - Spatial Sense Measurement

The diameter of a circle is 14 cm. What is its radius?

1. 7 cm
2. 14 cm
3. 28 cm
4. 21 cm

Q47 - Mathematics - Spatial Sense Measurement

What is the formula for the circumference of a circle?

1. radius
2. 2 radius
3. diameter
4. 2 radius

Q48 - Mathematics - Spatial Sense Measurement

A circle has a radius of 3 cm. What is its circumference? (Use 3.14)

1. 9.42 cm
2. 18.84 cm
3. 6 cm
4. 28.26 cm

2cool4school - Grade 7 Mathematics Worksheet

Q49 - Mathematics - Spatial Sense Measurement

Convert 1500 grams to kilograms.

1. 1.5 kg

2. 15 kg

3. 0.15 kg

4. 150 kg

Q50 - Mathematics - Spatial Sense Measurement

If a cube has a side length of 4 cm, what is its volume?

1. 64 cm

2. 16 cm

3. 12 cm

4. 32 cm

Q51 - Mathematics - Spatial Sense Measurement

A rectangular prism has dimensions 3 cm by 4 cm by 5 cm. What is its volume?

1. 60 cm

2. 12 cm

3. 20 cm

4. 100 cm

Q52 - Mathematics - Spatial Sense Measurement

Convert 2.5 kilometers to meters.

1. 250 m

2. 2500 m

3. 25 m

4. 0.25 m

Q53 - Mathematics - Spatial Sense Measurement

The area of a triangle is 24 cm, and its base is 6 cm. What is its height?

1. 8 cm

2. 4 cm

3. 6 cm

4. 12 cm

Q54 - Mathematics - Spatial Sense Measurement

A cylinder has a radius of 2 cm and a height of 5 cm. What is its volume? (Use   3.14)

1. 62.8 cm
2. 20 cm
3. 31.4 cm
4. 40 cm

Q55 - Mathematics - Exponents and Square Roots

What is 2?

1. 6
2. 8
3. 9
4. 4

Q56 - Mathematics - Exponents and Square Roots

What is the square root of 144?

1. 10
2. 12
3. 14
4. 16

Q57 - Mathematics - Exponents and Square Roots

Which of the following is equal to 5?

1. 625
2. 125
3. 25
4. 1024

Q58 - Mathematics - Exponents and Square Roots

What is the value of 10?

1. 10

2. 1

3. 0

4. -1

Q59 - Mathematics - Exponents and Square Roots

Which of the following is the correct representation of (3)?

1. 3

2. 3

3. 3

4. 3

Q60 - Mathematics - Exponents and Square Roots

What is the square root of 169?

1. 11

2. 12

3. 13

4. 14

Q61 - Mathematics - Exponents and Square Roots

What is 4 4?

1. 4

2. 4

3. 4

4. 4

Q62 - Mathematics - Exponents and Square Roots

What is the value of (2 2)?

1. 4

2. 2

3. 2

4. 2

Q63 - Mathematics - Exponents and Square Roots

What is 81^(1/2)?

1. 8
2. 9
3. 10
4. 12

Q64 - Mathematics - Exponents and Square Roots

What is the cube root of 27?

1. 2
2. 3
3. 4
4. 5

Q65 - Mathematics - Exponents and Square Roots

What is the value of 16^(-1/2)?

1. 1/4
2. 1/8
3. 1/2
4. 1/16

Q66 - Mathematics - Exponents and Square Roots

Simplify (x x) x

1. x
2. x
3. x
4. x

Q67 - Mathematics - Exponents and Square Roots

What is the value of 2^-3?

1. 1/2
2. 1/4
3. 1/8
4. 1/16

Q68 - Mathematics - Exponents and Square Roots

What is $64^{(1/3)}$?

1. 3
2. 4
3. 5
4. 6

Q69 - Mathematics - Exponents and Square Roots

What is the value of (5 5) 5?

1. 5
2. 5
3. 5
4. 5

Q70 - Mathematics - Data Probability

What is the primary difference between independent and dependent events in probability?

1. Independent events do not affect each other's outcomes; dependent events do.

2. Independent events always have equal probabilities; dependent events do not.

3. Independent events occur simultaneously; dependent events occur sequentially.

4. Independent events are predictable; dependent events are not.

Q71 - Mathematics - Data Probability

If you flip a coin and roll a die simultaneously, what is the probability of getting heads and a 4?

1. 1/2
2. 1/4
3. 1/6
4. 1/12

Q72 - Mathematics - Data Probability

In a deck of 52 cards, what is the probability of drawing an Ace, replacing it, and then drawing a King?

1. 1/169
2. 1/52
3. 1/26

4. 1/13

Q73 - Mathematics - Data Probability

Which of the following pairs of events are dependent?

1. Rolling two dice.
2. Drawing two cards without replacement.
3. Flipping a coin and rolling a die.
4. Choosing a marble from a bag, replacing it, and choosing again.

Q74 - Mathematics - Data Probability

If the probability of event A occurring is 0.3 and the probability of event B occurring is 0.4, what is the probability of both A and B occurring if they are independent?

1. 0.12
2. 0.7
3. 0.1
4. 0.3

Q75 - Mathematics - Data Probability

What is the theoretical probability of rolling a sum of 7 with two six-sided dice?

1. 1/6
2. 1/12
3. 1/36
4. 1/3

Q76 - Mathematics - Data Probability

If you draw two marbles consecutively without replacement from a bag containing 3 red and 2 blue marbles, what is the probability that both are red?

1. 3/10
2. 1/2
3. 1/3
4. 2/5

Q77 - Mathematics - Data Probability

Which statement is true about experimental probability?

1. It is based on the actual results of an experiment.

2. It is always equal to theoretical probability.

3. It cannot be determined without theoretical probability.

4. It is always less than theoretical probability.

Q78 - Mathematics - Data Probability

If two events are mutually exclusive, what is the probability of both occurring simultaneously?

1. 1

2. 0

3. 1/2

4. Depends on the events

Q79 - Mathematics - Mathematics - Transformations and Congruence

Which transformation involves flipping a figure over a line to produce a mirror image?

1. Translation

2. Rotation

3. Reflection

4. Dilation

Q80 - Mathematics - Mathematics - Transformations and Congruence

What is the term for a transformation that turns a figure around a fixed point?

1. Translation

2. Rotation

3. Reflection

4. Dilation

Q81 - Mathematics - Mathematics - Transformations and Congruence

Which transformation slides a figure from one position to another without turning it?

1. Translation

2. Rotation

3. Reflection

4. Dilation

Q82 - Mathematics - Mathematics - Transformations and Congruence

A figure has a line of symmetry. Which transformation maps the figure onto itself?

1. Translation
2. Rotation
3. Reflection
4. Dilation

Q83 - Mathematics - Mathematics - Transformations and Congruence

What is the order of rotational symmetry for an equilateral triangle?

1. 1
2. 2
3. 3
4. 6

Q84 - Mathematics - Mathematics - Statistics

What is the mean of the data set: 5, 7, 9, 10, 14?

1. 9
2. 10
3. 11
4. 12

Q85 - Mathematics - Mathematics - Statistics

In the data set 3, 7, 7, 2, 5, what is the mode?

1. 7
2. 5
3. 3
4. 2

Q86 - Mathematics - Mathematics - Statistics

Find the median of the data set: 12, 15, 11, 10, 14.

1. 12
2. 13
3. 14
4. 15

Q87 - Mathematics - Mathematics - Statistics

What is the range of the data set: 8, 3, 5, 12, 7?

1. 9
2. 8
3. 7
4. 6

Q88 - Mathematics - Mathematics - Statistics

In a survey, 10 students reported the number of books they read in a month: 2, 3, 5, 3, 4, 3, 2, 5, 3, 4. What is the mode of this data set?

1. 3
2. 4
3. 2
4. 5

Q89 - Mathematics - Algebra Mathematical Modelling

A car travels at a constant speed of 60 miles per hour. How far will it travel in 3 hours?

1. 120 miles
2. 180 miles
3. 200 miles
4. 150 miles

Q90 - Mathematics - Algebra Mathematical Modelling

If a rectangle's length is represented by l and its width by w, which expression represents its area?

1. l + w
2. 2l + 2w
3. lw
4. l^2 + w^2

Q91 - Mathematics - Algebra Mathematical Modelling

A company's profit P can be modeled by $P = 50x - 200$, where x is the number of products sold. What is the profit if 10 products are sold?

1. $300

2. $500

3. $700

4. $800

Q92 - Mathematics - Algebra Mathematical Modelling

The temperature T in degrees Celsius can be converted to degrees Fahrenheit F using the formula $F = 9/5T + 32$. What is F when T = 20?

1. 68F

2. 70F

3. 72F

4. 74F

Q93 - Mathematics - Algebra Mathematical Modelling

A phone plan charges a monthly fee of $30 plus $0.10 per minute of calls. Which expression represents the total monthly cost C for m minutes of calls?

1. C = 30 + 0.10m

2. C = 30m + 0.10

3. C = 0.10m - 30

4. C = 0.10m

Q94 - Mathematics - Algebra Mathematical Modelling

The population P of a town after t years can be modeled by $P = 5000 + 200t$. What will the population be after 5 years?

1. 6000

2. 7000

3. 8000

4. 9000

Q95 - Mathematics - Algebra Mathematical Modelling

A car rental company charges a flat fee of $25 plus $0.15 per mile driven. Which equation represents the total cost C for driving m miles?

1. C = 25 + 0.15m

2. C = 25m + 0.15

3. C = 0.15m - 25

4. C = 0.15m

Q96 - Mathematics - Algebra Mathematical Modelling

The cost C to produce n items is given by C = 100 + 5n. What is the cost to produce 20 items?

1. $150
2. $200
3. $300
4. $400

Q97 - Mathematics - Operations Addition and Subtraction

What is the result of adding -5 and 3?

1. -8
2. -2
3. 2
4. 8

Q98 - Mathematics - Operations Addition and Subtraction

Subtract: -7 - (-2)

1. -9
2. -5
3. 5
4. 9

Q99 - Mathematics - Operations Addition and Subtraction

Calculate: -4 + (-6)

1. -10
2. -2
3. 2
4. 10

Q100 - Mathematics - Operations Addition and Subtraction

What is the sum of -3 and 7?

1. -10

2. -4

3. 4

4. 10

Q101 - Mathematics - Operations Addition and Subtraction

Subtract: 5 - (-3)

1. -8

2. -2

3. 2

4. 8

Q102 - Mathematics - Operations Addition and Subtraction

Add: -8 + 12

1. -20

2. -4

3. 4

4. 20

Q103 - Mathematics - Operations Addition and Subtraction

What is -10 minus 5?

1. -15

2. -5

3. 5

4. 15

Q104 - Mathematics - Operations Addition and Subtraction

Calculate: -6 - (-9)

1. -15

2. -3

3. 3

4. 15

Q105 - Mathematics - Operations Addition and Subtraction

Add: -2 + (-7)

1. -9
2. -5
3. 5
4. 9

Q106 - Mathematics - Operations Addition and Subtraction

Subtract: -3 - 4

1. -7
2. -1
3. 1
4. 7

Q107 - Mathematics - Operations Addition and Subtraction

What is the result of -9 + 5?

1. -14
2. -4
3. 4
4. 14

Q108 - Mathematics - Operations Addition and Subtraction

Add: 7 + (-11)

1. -18
2. -4
3. 4
4. 18

Q109 - Mathematics - Operations Addition and Subtraction

Subtract: -5 - (-8)

1. -13
2. -3
3. 3
4. 13

Q110 - Mathematics - Operations Addition and Subtraction

Calculate: -7 + (-2)

1. -9
2. -5
3. 5
4. 9

Q111 - Mathematics - Operations Addition and Subtraction

What is the sum of -4 and -6?

1. -10
2. -2
3. 2
4. 10

Q112 - Mathematics - Financial Literacy Money and Finances

If 1 Canadian Dollar (CAD) equals 0.75 US Dollars (USD), how much is 100 USD in CAD?

1. 133.33 CAD
2. 75 CAD
3. 100 CAD
4. 125 CAD

Q113 - Mathematics - Financial Literacy Money and Finances

Sarah wants to buy a book priced at $20 with a 15% discount. What is the final price after the discount?

1. $17
2. $18
3. $15
4. $16

Q114 - Mathematics - Financial Literacy Money and Finances

A store offers a 10% discount on a $50 item. How much do you save?

1. $5
2. $10
3. $15

4. $20

Q115 - Mathematics - Financial Literacy Money and Finances

If you leave a 20% tip on a $30 meal, how much is the tip?

1. $6
2. $5
3. $7
4. $8

Q116 - Mathematics - Financial Literacy Money and Finances

An item costs $200, and the sales tax is 8%. What is the total cost including tax?

1. $216
2. $208
3. $220
4. $210

Q117 - Mathematics - Financial Literacy Money and Finances

You invest $500 at a simple interest rate of 5% per year. How much interest will you earn in 2 years?

1. $50
2. $25
3. $75
4. $100

Q118 - Mathematics - Financial Literacy Money and Finances

A laptop is priced at $1,000. During a sale, it's offered at a 25% discount. What is the sale price?

1. $750
2. $800
3. $850
4. $900

Q119 - Mathematics - Number Sense Fractions, Decimals & Percents

What is 3/4 as a decimal?

1. 0.75
2. 0.5
3. 1.25
4. 0.25

Q120 - Mathematics - Number Sense Fractions, Decimals & Percents

What is 50% of 80?

1. 40
2. 30
3. 50
4. 60

Q121 - Mathematics - Number Sense Fractions, Decimals & Percents

Convert 0.6 to a fraction.

1. 3/5
2. 1/2
3. 2/3
4. 3/4

Q122 - Mathematics - Number Sense Fractions, Decimals & Percents

What is 25% as a decimal?

1. 0.25
2. 0.75
3. 0.5
4. 1

Q123 - Mathematics - Number Sense Fractions, Decimals & Percents

How do you convert a fraction to a percent?

1. Multiply the fraction by 100.
2. Add the fraction to 100.
3. Divide the fraction by 100.
4. Subtract the fraction from 100.

Q124 - Mathematics - Number Sense Fractions, Decimals & Percents

What is 1/2 as a percent?

1. 50%
2. 100%
3. 75%
4. 25%

Q125 - Mathematics - Number Sense Fractions, Decimals & Percents

What is the sum of 3/5 and 2/5?

1. 1
2. 5/5
3. 2/5
4. 3/10

Q126 - Mathematics - Number Sense Fractions, Decimals & Percents

What is 0.75 as a percentage?

1. 75%
2. 25%
3. 50%
4. 100%

Q127 - Mathematics - Number Sense Fractions, Decimals & Percents

Subtract 3/4 from 1.

1. 1/4
2. 3/5
3. 3/4
4. 5/4

Q128 - Mathematics - Number Sense Fractions, Decimals & Percents

What is the decimal equivalent of 5/8?

1. 0.625
2. 0.5
3. 0.75
4. 1.25

Q129 - Mathematics - Number Sense Fractions, Decimals & Percents

Convert 0.4 to a percent.

1. 40%

2. 4%

3. 400%

4. 0.4%

Q130 - Mathematics - Number Sense Fractions, Decimals & Percents

What is the product of 1/3 and 3/4?

1. 3/12

2. 1/6

3. 1/4

4. 3/8

Q131 - Mathematics - Number Sense Fractions, Decimals & Percents

What is the decimal equivalent of 2/5?

1. 0.4

2. 0.5

3. 1

4. 0.25

Q132 - Mathematics - Number Sense Fractions, Decimals & Percents

How do you add fractions with different denominators?

1. Find a common denominator.

2. Add the numerators directly.

3. Multiply the fractions.

4. Subtract the denominators directly.

Q133 - Mathematics - Number Sense Fractions, Decimals & Percents

What is 15% of 200?

1. 30

2. 20

3. 25

4. 35

Q134 - Mathematics - Mathematics - Financial Literacy

If 1 USD equals 0.85 EUR, how many euros would you get for 100 USD?

1. 85
2. 100
3. 115
4. 90

Q135 - Mathematics - Mathematics - Financial Literacy

A product costs $50 with a 10% discount. What is the final price after the discount?

1. $45
2. $40
3. $50
4. $55

Q136 - Mathematics - Mathematics - Financial Literacy

If a meal costs $80 and you want to leave a 15% tip, how much tip should you leave?

1. $12
2. $10
3. $15
4. $8

Q137 - Mathematics - Mathematics - Financial Literacy

You deposit $200 in a savings account with an annual simple interest rate of 5%. How much interest will you earn in 2 years?

1. $20
2. $10
3. $15
4. $25

Q138 - Mathematics - Mathematics - Financial Literacy

A jacket is priced at $120. During a sale, it's offered at a 25% discount. What is the sale price?

1. $90
2. $100
3. $95
4. $85

Q139 - Mathematics - Mathematics - Financial Literacy

If 1 kilogram of apples costs $3, how much would 500 grams cost?

1. $1.50
2. $3.00
3. $2.00
4. $1.00

Q140 - Mathematics - Mathematics - Financial Literacy

You borrow $500 with an annual simple interest rate of 6%. How much interest will you owe after 1 year?

1. $30
2. $25
3. $20
4. $35

Q141 - Mathematics - Mathematics - Financial Literacy

A store offers a 15% discount on all items. If an item costs $60, what is the discount amount?

1. $9
2. $6
3. $12
4. $15

Q142 - Mathematics - Algebra Patterns and Relationships

Identify the pattern rule for the sequence: 5, 10, 15, 20, ...

1. Add 3
2. Add 5
3. Multiply by 2
4. Subtract 5

Q143 - Mathematics - Algebra Patterns and Relationships

What is the 7th term in the pattern: 2, 4, 8, 16, ...?

1. 32
2. 64
3. 128
4. 256

Q144 - Mathematics - Algebra Patterns and Relationships

Determine the next term in the pattern: 100, 90, 81, 73, ...

1. 65
2. 66
3. 64
4. 63

Q145 - Mathematics - Algebra Patterns and Relationships

If the pattern rule is 'Start at 3 and multiply by 3 each time,' what is the 5th term?

1. 81
2. 243
3. 27
4. 9

Q146 - Mathematics - Algebra Patterns and Relationships

Identify the pattern rule for the sequence: 7, 14, 28, 56, ...

1. Add 7
2. Multiply by 2
3. Subtract 7
4. Multiply by 3

Q147 - Mathematics - Algebra Patterns and Relationships

What is the 6th term in the pattern: 1, 4, 9, 16, ...?

1. 25
2. 36
3. 49

4. 64

Q148 - Mathematics - Algebra Patterns and Relationships

Determine the next term in the pattern: 2, 5, 10, 17, ...

1. 26
2. 28
3. 29
4. 30

Q149 - Mathematics - Algebra Patterns and Relationships

If the pattern rule is 'Start at 10 and subtract 2 each time,' what is the 8th term?

1. -4
2. -6
3. -8
4. -10

Q150 - Mathematics - Mathematics - Ratios, Rates, and Proportions

What is the unit rate if 150 miles are driven in 3 hours?

1. 50 miles per hour
2. 45 miles per hour
3. 55 miles per hour
4. 60 miles per hour

Q151 - Mathematics - Mathematics - Ratios, Rates, and Proportions

Solve for x: 4/5 = x/20

1. 15
2. 16
3. 20
4. 25

Q152 - Mathematics - Mathematics - Ratios, Rates, and Proportions

A recipe requires 2 cups of sugar for every 5 cups of flour. What is the ratio of sugar to flour?

1. 2:5

2. 5:2

3. 1:2.5

4. 2.5:1

Q153 - Mathematics - Mathematics - Ratios, Rates, and Proportions

If 8 notebooks cost $24, what is the cost per notebook?

1. $2

2. $3

3. $4

4. $5

Q154 - Mathematics - Mathematics - Ratios, Rates, and Proportions

Which of the following ratios is equivalent to 3:4?

1. 6:8

2. 9:12

3. 12:16

4. All of the above

Q155 - Mathematics - Mathematics - Ratios, Rates, and Proportions

A map has a scale of 1 inch representing 5 miles. If two cities are 3 inches apart on the map, how far apart are they in reality?

1. 10 miles

2. 15 miles

3. 20 miles

4. 25 miles

Q156 - Mathematics - Operations Mental Math

Increase 200 by 10%. What is the result?

1. 210.0

2. 220.0

3. 230.0

4. 240.0

Q157 - Mathematics - Operations Mental Math

Decrease 150 by 25%. What is the result?

1. 100.0
2. 112.5
3. 120.0
4. 125.0

Q158 - Mathematics - Operations Mental Math

Increase 80 by 50%. What is the result?

1. 120.0
2. 130.0
3. 140.0
4. 150.0

Q159 - Mathematics - Operations Mental Math

Decrease 60 by 10%. What is the result?

1. 50.0
2. 54.0
3. 56.0
4. 58.0

Q160 - Mathematics - Operations Mental Math

Increase 400 by 1%. What is the result?

1. 404.0
2. 406.0
3. 408.0
4. 410.0

Q161 - Mathematics - Operations Mental Math

Decrease 250 by 5%. What is the result?

1. 225.0
2. 235.0
3. 237.5
4. 240.0

Q162 - Mathematics - Operations Mental Math

Increase 90 by 25%. What is the result?

1. 100.0
2. 110.0
3. 112.5
4. 115.0

Q163 - Mathematics - Operations Mental Math

Decrease 500 by 50%. What is the result?

1. 200.0
2. 250.0
3. 300.0
4. 350.0

Q164 - Mathematics - Operations Mental Math

Increase 120 by 100%. What is the result?

1. 120.0
2. 180.0
3. 200.0
4. 240.0

Q165 - Mathematics - Operations Mental Math

Decrease 75 by 1%. What is the result?

1. 73.5
2. 74.0
3. 74.25
4. 74.5

Q166 - Mathematics - Operations Math Facts

What is the decimal equivalent of 1/4?

1. 0.25
2. 0.5
3. 0.75

4. 1.0

Q167 - Mathematics - Operations Math Facts

What is 20% as a fraction in simplest form?

1. 1/5
2. 1/4
3. 1/3
4. 1/2

Q168 - Mathematics - Operations Math Facts

Convert 0.75 to a fraction in simplest form.

1. 3/4
2. 1/2
3. 2/3
4. 1/4

Q169 - Mathematics - Operations Math Facts

What is 3/5 as a decimal?

1. 0.2
2. 0.4
3. 0.6
4. 0.8

Q170 - Mathematics - Operations Math Facts

Express 0.2 as a fraction in simplest form.

1. 1/2
2. 1/5
3. 1/4
4. 1/10

Q171 - Mathematics - Operations Math Facts

What is 50% as a decimal?

1. 0.05

2. 0.5

3. 5.0

4. 0.005

Q172 - Mathematics - Operations Math Facts

Convert 0.125 to a fraction in simplest form.

1. 1/8

2. 1/4

3. 1/2

4. 1/5

Q173 - Mathematics - Operations Math Facts

What is 2/3 as a decimal (rounded to two decimal places)?

1. 0.33

2. 0.67

3. 0.50

4. 0.75

Q174 - Mathematics - Operations Math Facts

Which fraction is equivalent to 0.2?

1. 1/2

2. 1/5

3. 1/4

4. 1/10

Q175 - Mathematics - Operations Math Facts

Convert 1/8 to a decimal.

1. 0.10

2. 0.125

3. 0.15

4. 0.20

Q176 - Mathematics - Operations Math Facts

Which is the correct decimal form of 3/4?

1. 0.25
2. 0.5
3. 0.75
4. 1.0

Q177 - Mathematics - Operations Math Facts

Convert 0.4 to a fraction in simplest form.

1. 1/5
2. 2/5
3. 3/5
4. 4/5

Q178 - Mathematics - Operations Math Facts

What is 5/8 as a decimal?

1. 0.25
2. 0.5
3. 0.625
4. 0.75

Q179 - Mathematics - Operations Math Facts

Which fraction is equivalent to 0.75?

1. 1/2
2. 3/4
3. 1/3
4. 2/5

Q180 - Mathematics - Operations Math Facts

Convert 0.6 to a fraction in simplest form.

1. 3/5
2. 2/3
3. 1/4
4. 4/5

Q181 - Mathematics - Algebra Equations and Inequalities

Simplify the expression: 3x + 5x.

1. 8x
2. 15x
3. 3x^2
4. 8

Q182 - Mathematics - Algebra Equations and Inequalities

Evaluate the expression 2a + 3b when a = 4 and b = 5.

1. 23
2. 22
3. 26
4. 20

Q183 - Mathematics - Algebra Equations and Inequalities

Solve for x: 5x - 7 = 18.

1. 5
2. 6
3. 4
4. 7

Q184 - Mathematics - Algebra Equations and Inequalities

Solve the inequality: 3x + 4 > 10.

1. x > 2
2. x > 3
3. x > 4
4. x > 6

Q185 - Mathematics - Algebra Equations and Inequalities

Which of the following is a solution to the inequality 2x - 3 7?

1. x = 6
2. x = 5
3. x = 4
4. x = 3

Q186 - Mathematics - Algebra Equations and Inequalities

Simplify the expression: 4(2x - 3).

1. 8x - 12

2. 8x + 12

3. 8x - 3

4. 8x + 3

Q187 - Mathematics - Algebra Equations and Inequalities

Solve for y: 3y/4 = 9.

1. 12

2. 15

3. 9

4. 6

Q188 - Mathematics - Algebra Equations and Inequalities

Which of the following represents the solution set for the inequality x + 5 < 12?

1. x < 7

2. x > 7

3. x < 17

4. x > 17

Q189 - Mathematics - Algebra Equations and Inequalities

Simplify: 2(x - 3) + 4.

1. 2x - 2

2. 2x - 6

3. 2x - 8

4. 2x – 4

Q190 - Mathematics - Algebra Equations and Inequalities

Solve for x: 7 - 2x = 1.

1. 3

2. -3

3. 2

4. -2

Answer Key

Q1: Circle

Q2: Circle

Q3: Dilation

Q4: (-3, 4)

Q5: (x, y) (y, -x)

Q6: Pyramid

Q7: (-5, -2)

Q8: 56

Q9: 12

Q10: 12

Q11: 35

Q12: 27

Q13: 1/2

Q14: 5/4

Q15: 0.35

Q16: 3

Q17: 5/4

Q18: 16

Q19: Percentages simplify comparisons across different groups.

Q20: Conducting surveys with open-ended questions.

Q21: To identify patterns and themes.

Q22: Bar graph.

Q23: Measuring the height of students in centimeters.

Q24: To ensure clarity and understanding of the data presented.

Q25: 13

Q26: 32

Q27: Identity Property

Q28: 16

Q29: 4

Q30: 1.5

Q31: Associative Property

Q32: 40

Q33: 22

Q34: Commutative Property

Q35: -13

Q36: 1

Q37: 30

Q38: Distributive Property

Q39: 3

Q40: Volume measures the amount of space an object occupies; capacity measures the amount a contain

Q41: 1

Q42: 2.5 liters

Q43: 5 cm

Q44: 50 cm

Q45: 500 cm

Q46: 7 cm

Q47: 2   radius

Q48: 18.84 cm

Q49: 1.5 kg

Q50: 64 cm

Q51: 60 cm

Q52: 2500 m

Q53: 8 cm

Q54: 62.8 cm

Q55: 8

Q56: 12

Q57: 625

Q58: 1

Q59: 3

Q60: 13

Q61: 4

Q62: 2

Q63: 9

Q64: 3

Q65: 1/2

Q66: x

Q67: 1/8

Q68: 4

Q69: 5

Q70: Independent events do not affect each other's outcomes; dependent events do.

Q71: 1/12

Q72: 1/169

Q73: Drawing two cards without replacement.

Q74: 0.12

Q75: 1/6

Q76: 3/10

Q77: It is based on the actual results of an experiment.

Q78: 0

Q79: Reflection

Q80: Rotation

Q81: Translation

Q82: Reflection

Q83: 3

Q84: 9

Q85: 7

Q86: 12

Q87: 9

Q88: 3

Q89: 180 miles

Q90: lw

Q91: $300

Q92: 68F

Q93: C = 30 + 0.10m

Q94: 7000

Q95: C = 25 + 0.15m

Q96: $300

Q97: -2

Q98: -5

Q99: -10

Q100: 4

Q101: 8

Q102: 4

Q103: -15

Q104: 3

Q105: -9

Q106: -7

Q107: -4

Q108: -4

Q109: 3

Q110: -9

Q111: -10

Q112: 133.33 CAD

Q113: $17

Q114: $5

Q115: $6

Q116: $216

Q117: $75

Q118: $750

Q119: 0.75

Q120:   40

Q121:   1/2

Q122: 0.25

Q123: Multiply the fraction by 100.

Q124: 50%

Q125: 1

Q126: 75%

Q127: 1/4

Q128: 0.625

Q129: 40%

Q130: 1/6

Q131: 0.4

Q132: Find a common denominator.

Q133: 30

Q134: 85

Q135: $45

Q136: $12

Q137: $10

Q138: $90

Q139: $1.50

Q140: $30

Q141: $9

Q142: Add 5

Q143: 64

Q144: 65

Q145: 81

Q146: Multiply by 2

Q147: 36

Q148: 26

Q149: -4

Q150: 50 miles per hour

Q151: 16

Q152: 2:5

Q153: $3

Q154: All of the above

Q155: 15 miles

Q156: 220.0

Q157: 112.5

Q158: 120.0

Q159: 54.0

Q160: 404.0

Q161: 237.5

Q162: 112.5

Q163: 250.0

Q164: 240.0

Q165: 74.5

Q166: 0.25

Q167: 1/5

Q168: 3/4

Q169: 0.6

Q170: 1/5

Q171: 0.5

Q172: 1/8

Q173: 0.67

Q174: 1/5

Q175: 0.125

Q176: 0.75

Q177: 2/5

Q178: 0.625

Q179: 3/4

Q180: 3/5

Q181: 8x

Q182: 26

Q183: 5

Q184: x > 2

Q185: x = 5

Q186: 8x - 12

Q187: 12

Q188: x < 7

Q189: 2x - 2

Q190: -3