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Part 1: Building a Foundation

What is the result of $7 + 5$?

Hint: Think about basic addition.

○ 10
○ 11
○ **12** ✓
○ 13

▎ The correct answer is 12.

What is the result of $7 + 5$?

Hint: Think about basic addition.

○ 10
○ 11
○ **12** ✓
○ 13

▎ The correct answer is 12.

Which of the following are prime numbers?

Hint: Recall the definition of prime numbers.

☐ **2** ✓
☐ 4
☐ **5** ✓
☐ 9

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The prime numbers are 2 and 5.

Which of the following are prime numbers?

Hint: Remember that prime numbers have only two factors.

☐ **2** ✓
☐ 4
☐ **5** ✓
☐ 9

The correct answers are 2 and 5.

Explain what a fraction represents in mathematics.

Hint: Consider parts of a whole.

A fraction represents a part of a whole, indicating how many parts of a certain size are taken.

Explain what a fraction represents in mathematics.

Hint: Consider the parts of a whole.

A fraction represents a part of a whole.

List the four basic operations in arithmetic.

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Hint: Think about addition, subtraction, multiplication, and division.

1. What is the first operation?

> Addition

---

2. What is the second operation?

> Subtraction

---

3. What is the third operation?

> Multiplication

---

4. What is the fourth operation?

> Division

> The four basic operations are addition, subtraction, multiplication, and division.

Part 2: Understanding and Interpretation

Which statements about decimals are true?

Hint: Consider the properties of decimals.

- ☐ **Decimals are another way to represent fractions. ✔**
- ☐ Decimals are always greater than 1.
- ☐ **Decimals can be converted to percentages. ✔**
- ☐ **Decimals are used in measurements. ✔**

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> The true statements are that decimals represent fractions, can be converted to percentages, and are used in measurements.

Which statements about decimals are true?

Hint: Consider how decimals relate to fractions.

- ☑ **Decimals are another way to represent fractions. ✓**
- ☐ Decimals are always greater than 1.
- ☑ **Decimals can be converted to percentages. ✓**
- ☑ **Decimals are used in measurements. ✓**

> The true statements are that decimals can represent fractions and can be converted to percentages.

Describe the relationship between the area and perimeter of a rectangle.

Hint: Think about how both are calculated.

> **The area measures the space inside the rectangle, while the perimeter measures the distance around it.**

Describe the relationship between the area and perimeter of a rectangle.

Hint: Think about how these two measurements are calculated.

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> **The area measures the space within the rectangle, while the perimeter measures the distance around it.**

If a rectangle has a length of 8 cm and a width of 3 cm, what is its area?

Hint: Use the formula Area = length × width.

○ 11 cm²
○ **24 cm² ✔**
○ 22 cm²
○ 30 cm²

| The area is 24 cm².

If a rectangle has a length of 8 cm and a width of 3 cm, what is its area?

Hint: Use the formula for area: length × width.

○ 11 cm²
○ **24 cm² ✔**
○ 22 cm²
○ 30 cm²

| The area is 24 cm².

Part 3: Application and Analysis

Which of the following are correct solutions for the equation $x + 3 = 7$?

Hint: Solve for x in the equation.

☐ **$x = 4$ ✔**
☐ $x = 3$
☐ $x = 5$
☐ $x = 7$

| The correct solution is $x = 4$.

Which of the following are correct solutions for the equation $x + 3 = 7$?

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Hint: Solve for x to find the correct answers.

☐ **\(x = 4 \) ✓**
☐ \(x = 3 \)
☐ \(x = 5 \)
☐ \(x = 7 \)

❚ The correct answer is \(x = 4 \).

Calculate the volume of a cube with a side length of 5 cm.

Hint: Use the formula Volume = side³.

❚ **The volume is 125 cm³.**

Calculate the volume of a cube with a side length of 5 cm.

Hint: Use the formula for volume: side³.

❚ **The volume is 125 cm³.**

Which graph best represents a linear relationship?

Hint: Consider the shape of the graph.

○ **A straight line ✓**
○ A parabola
○ A circle

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○ A hyperbola

| The correct answer is a straight line.

Which graph best represents a linear relationship?

Hint: Think about the shape of the graph.

○ **A straight line** ✓
○ A parabola
○ A circle
○ A hyperbola

| The correct answer is a straight line.

Which of the following statements are true about the relationship between fractions and decimals?

Hint: Think about how fractions can be represented.

☐ **Every fraction can be expressed as a decimal.** ✓
☐ **Every decimal can be expressed as a fraction.** ✓
☐ Fractions and decimals are unrelated.
☐ Some decimals are repeating and cannot be expressed as fractions.

| The true statements are that every fraction can be expressed as a decimal and every decimal can be expressed as a fraction.

Which of the following statements are true about the relationship between fractions and decimals?

Hint: Consider how fractions can be represented as decimals.

☐ **Every fraction can be expressed as a decimal.** ✓
☐ **Every decimal can be expressed as a fraction.** ✓
☐ Fractions and decimals are unrelated.
☐ Some decimals are repeating and cannot be expressed as fractions.

| The true statements are that every fraction can be expressed as a decimal and every decimal can be expressed as a fraction.

Part 4: Synthesis and Reflection

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Analyze the differences between mean, median, and mode in a data set.

Hint: Consider how each measure is calculated.

Mean is the average, median is the middle value, and mode is the most frequent value.

Analyze the differences between mean, median, and mode in a data set.

Hint: Consider how each measure is calculated.

Mean is the average, median is the middle value, and mode is the most frequent value.

Which method is most effective for solving the equation $2x - 4 = 10$?

Hint: Consider the methods you have learned.

○ Graphging
○ Substitution
○ Elimination
○ **Direct calculation ✔**

The most effective method is direct calculation.

Which method is most effective for solving the equation $2x - 4 = 10$?

Hint: Consider the methods you have learned.

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◯ Graphging
◯ Substitution
◯ Elimination
◯ **Direct calculation ✓**

> The most effective method is direct calculation.

Which of the following strategies can be used to solve real-world problems involving fractions?

Hint: Think about practical approaches.

☐ **Estimation ✓**
☐ **Cross-multiplication ✓**
☐ **Simplification ✓**
☐ Ignoring the fractions

> The strategies include estimation, cross-multiplication, and simplification.

Which of the following strategies can be used to solve real-world problems involving fractions?

Hint: Think about practical approaches to fractions.

☐ **Estimation ✓**
☐ **Cross-multiplication ✓**
☐ **Simplification ✓**
☐ Ignoring the fractions

> The correct strategies include estimation, cross-multiplication, and simplification.

Create a real-world problem that involves calculating the area of a triangle, and provide a solution.

Hint: Think about a scenario where you need to find the area.

> **A possible problem could involve finding the area of a triangular garden.**

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Create a real-world problem that involves calculating the area of a triangle, and provide a solution.

Hint: Think about how triangles are used in real life.

A sample problem could involve finding the area of a triangular garden.

Propose two different methods to solve the equation $x^2 - 5x + 6 = 0$ and explain each method briefly.

Hint: Consider factoring and using the quadratic formula.

1. What is the first method?

Factoring

2. What is the second method?

Quadratic formula

One method is factoring, and the other is using the quadratic formula.

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