

# YEAR 6 PROBLEM SOLVING YIMIN MATH CENTRE

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### Year 6 Problem Solving: Yimin Math Centre

Yimin Math Centre is a renowned educational facility dedicated to nurturing the problem-solving abilities of students in Year 6. Through a series of challenging questions and thought-provoking exercises, the centre aims to equip pupils with the necessary skills and strategies to tackle complex mathematical problems confidently.

#### Question 1:

A rectangular garden is 8 metres long and 5 metres wide. Find the perimeter of the garden.

#### Answer:

Perimeter = 2(length + width) Perimeter = 2(8 + 5) Perimeter = 26 metres

#### Question 2:

A train travels 120 kilometres in 2 hours. What is the average speed of the train?

#### Answer:

Average speed = Distance travelled / Time taken Average speed = 120 kilometres / 2 hours Average speed = 60 kilometres per hour

#### Question 3:

A shop sells apples for \$1.50 each. If I buy 6 apples, how much will I pay?

**Answer:**

Total cost = Price per apple  $\times$  Number of apples  
Total cost =  $\$1.50 \times 6$   
Total cost = \$9.00

**Question 4:**

A rectangular prism has a length of 10 cm, a width of 5 cm, and a height of 3 cm. Find the volume of the prism.

**Answer:**

Volume = Length  $\times$  Width  $\times$  Height  
Volume =  $10 \text{ cm} \times 5 \text{ cm} \times 3 \text{ cm}$   
Volume = 150 cubic centimetres

**Question 5:**

A pizza has 12 slices. If I eat 3 slices, what fraction of the pizza have I eaten?

**Answer:**

Fraction eaten = Number of slices eaten / Total number of slices  
Fraction eaten =  $3 \text{ slices} / 12 \text{ slices}$   
Fraction eaten =  $1/4$

## **Zero-One Notes: The Future of Startups**

### **What are zero-one notes?**

Zero-one notes are convertible, unsecured loans that are issued by private investors to early-stage startups. These notes typically have a maturity of 12-24 months and a conversion rate that is tied to the company's future fundraising round.

### **Why are zero-one notes popular with startups?**

Zero-one notes are popular with startups because they provide a number of advantages over traditional equity financing. First, they are debt financing, so they do not require the startup to give up any equity. Second, they are convertible, so they can be converted into equity at a later date if the startup raises a successful funding round. Third, they are unsecured, so they do not require the startup to provide any

collateral.

### **What are the risks of zero-one notes?**

There are a number of risks associated with zero-one notes. First, they can be expensive, as they typically have a high interest rate. Second, they can be dilutive, as they can be converted into equity at a later date. Third, they can be a burden on the startup's cash flow, as they must be repaid at maturity.

### **Are zero-one notes right for your startup?**

Zero-one notes can be a good option for early-stage startups that need to raise capital quickly and without giving up any equity. However, it is important to understand the risks involved before taking on this type of financing.

### **Summary**

Zero-one notes are a type of convertible, unsecured loan that is popular with early-stage startups. They offer a number of advantages over traditional equity financing, but they also come with a number of risks. It is important to understand the risks involved before taking on this type of financing.

### **What in the World Level 1 Answer Key: Issue 3**

**Question 1: Which animal has a pouch where it carries its young?** Answer: Kangaroo

**Question 2: What is the name of the largest planet in our solar system?** Answer: Jupiter

**Question 3: Which country is known for its Great Wall?** Answer: China

**Question 4: What is the name of the famous painting by Leonardo da Vinci that depicts a woman with a mysterious smile?** Answer: Mona Lisa

**Question 5: Which continent is home to the Amazon rainforest?** Answer: South America

### **Solar System Installation and Operation Manual: A Guide for Homeowners**

## **What is a solar system installation and operation manual?**

A solar system installation and operation manual is a document that provides instructions on how to properly install, operate, and maintain a solar energy system. It typically includes information on system components, safety precautions, troubleshooting tips, and warranty details.

## **Why is it important to have an installation and operation manual?**

Having an installation and operation manual is essential for ensuring the safe and efficient operation of your solar system. It provides guidance on proper installation techniques, electrical connections, and system maintenance. By following the instructions in the manual, you can minimize the risk of accidents, optimize system performance, and extend the lifespan of your equipment.

## **What questions should you ask your solar installer about the manual?**

When reviewing the installation and operation manual, it's important to ask your solar installer any questions you may have about the following:

- **System components:** What are the different components of the solar system and how do they work together?
- **Installation process:** What are the steps involved in installing the solar panels, inverters, and electrical components?
- **Safety precautions:** What are the potential hazards associated with solar system installation and operation, and how can you minimize the risks?
- **Troubleshooting:** How do you troubleshoot common system issues, such as low power output or electrical faults?
- **Warranty coverage:** What does the warranty cover and how do you make a claim?

## **What should you include in an operation and maintenance log?**

An operation and maintenance log is a useful tool for tracking system performance and identifying any potential problems. It should include the following information:

- System readings (e.g., voltage, current, power output)
- Maintenance activities (e.g., cleaning, inspections)
- Repairs or replacements
- Any issues or concerns you notice with the system

By keeping a detailed log, you can monitor the performance of your solar system over time and ensure that it is operating as intended.

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