

Maths Mate 3 Chapter 30 Answers

23. [Coordinates]
Draw a line through all the points where the x -coordinate and the y -coordinate add to 2 (line of equation $x + y = 2$).

29. [Statistics]
In which year was the number of people at Collingwood home games less than that of Richmond?

1999

24. [Units of Measurement / Time] *
4 min 20 s = **260** s

30. [Probability] *
Which has a 50% chance of success?
A) drawing a vowel from the letters A to Z
B) selecting an even number from the numbers 10 to 19
C) choosing a diamond from a deck of 52 playing cards

B

25. [Perimeter] *
Calculate the perimeter of the polygon in millimetres.

180 mm

31. [Problem Solving 1] *
A number of students are evenly spaced around a circle. The fourth student is directly opposite the tenth student. How many students are in the circle?

12

26. [Area / Volume] *
Find the area of the polygon.

12 cm²

32. [Problem Solving 2] *
Two taps drip together at exactly 1:00 pm. One tap then drips again every 68 seconds while the other tap continues to drip every 72 seconds. At what time will the two taps both drip together again?

1:20.24 pm

27. [Shapes] *
Find the value of x° .

33°

33. [Problem Solving 3] *
Deduce the 3-digit secret number.
[A cow means a number is correct in value but in the wrong position. A bull indicates that a number is both correct in value and in the correct position. i.e. 2 cows and 1 bull would indicate that all three numbers were correct but two were in the wrong positions.]

Guess	Secret Number	Cows	Bulls
1st	1 6 2	-	1
2nd	1 7 5	1	1
3rd	1 6 5	1	-

572

28. [Location / Transformation]
Redraw this rhombus after rotating it 90° anticlockwise about point D and then reflecting it in the vertical dotted line.

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Maths Mate 3 Chapter 30 Answers are essential for students seeking to master the concepts presented in this chapter. Maths Mate is a widely used math resource designed to support students in their understanding of various mathematical principles. Chapter 30 typically focuses on key topics that are foundational to students' mathematical education. This article delves into the specifics of Chapter 30, explains the types of questions that may be encountered, and provides guidance on how to arrive at the correct answers.

Understanding the Structure of Chapter 30

Chapter 30 generally covers a variety of mathematical concepts, often integrating problem-solving techniques and practical applications. The chapter may include the following topics:

- Fractions
- Decimals
- Ratios and Proportions
- Basic Operations (Addition, Subtraction, Multiplication, Division)
- Word Problems

Each of these topics is crucial for building a strong mathematical foundation and is commonly encountered in standardized tests and real-world applications.

Fractions

Fractions are a fundamental aspect of mathematics, representing parts of a whole. In Chapter 30, students may be required to perform operations with fractions, including:

1. Addition and Subtraction of Fractions: Understanding how to find a common denominator is key.
2. Multiplication of Fractions: Students should know how to multiply numerators and denominators.
3. Division of Fractions: This often involves flipping the second fraction and multiplying.

Decimals

Decimals extend the concept of fractions and are used in various calculations. Students should be proficient in:

- Conversion between Fractions and Decimals: Knowing how to convert is vital for solving mixed problems.
- Operations with Decimals: This includes addition, subtraction, multiplication, and division of decimal numbers.

Ratios and Proportions

Ratios and proportions are used to compare quantities. In Chapter 30, students may encounter problems that involve:

- Finding Ratios: Understanding how to express one quantity in relation to another.
- Solving Proportions: This often requires cross-multiplication to find unknown values.

Basic Operations

Basic operations are the building blocks of mathematics. In this chapter, students will practice:

- Addition: Combining numbers to find a total.
- Subtraction: Finding the difference between numbers.
- Multiplication: Repeated addition of a number.
- Division: Splitting a number into equal parts.

Word Problems

Word problems are a critical component of mathematics as they require students to apply their knowledge to real-world scenarios. Skills necessary for solving these problems include:

- Reading Comprehension: Understanding what the problem is asking.
- Identifying Key Information: Recognizing the numbers and operations needed.
- Setting Up Equations: Translating the problem into a mathematical expression.

Common Types of Questions in Chapter 30

In Chapter 30 of Maths Mate 3, students will likely encounter a variety of question types. These may include:

1. Multiple Choice Questions: These questions provide several answer options, and students must select the correct one.
2. Short Answer Questions: Students are required to show their work and arrive at a solution.
3. Problem-Solving Questions: These often involve word problems that require a multi-step approach.

Tips for Finding the Answers

To successfully navigate through Chapter 30 and find the correct answers, students can follow these tips:

- Read the Questions Carefully: Ensure you understand what is being asked before attempting to solve.
- Show Your Work: Writing out each step can help prevent mistakes and clarify your reasoning.
- Practice Regularly: Consistent practice helps reinforce the concepts learned and improves problem-solving skills.
- Use Visual Aids: Drawing diagrams or models can assist in understanding complex problems, especially with fractions and ratios.

Sample Questions and Solutions

To provide a clearer understanding of how to approach questions from Chapter 30, here are a few sample questions along with their solutions.

Sample Question 1: Fractions

Question: Add $\left(\frac{1}{4} + \frac{2}{4} \right)$.

Solution:

1. Find a common denominator, which is 4.
2. Add the numerators: $\left(1 + 2 = 3 \right)$.
3. The answer is $\left(\frac{3}{4} \right)$.

Sample Question 2: Decimals

Question: Subtract $\left(3.5 - 1.2 \right)$.

Solution:

1. Align the decimal points:

...

3.5

- 1.2

...

2. Subtract:

$\left(3.5 - 1.2 = 2.3 \right)$.

Sample Question 3: Ratios

Question: The ratio of cats to dogs is 3:2. If there are 12 cats, how many dogs are there?

Solution:

1. Set up the ratio $\frac{\text{cats}}{\text{dogs}} = \frac{3}{2}$.
2. Let the number of dogs be d . Then, $\frac{12}{d} = \frac{3}{2}$.
3. Cross-multiply: $3d = 24$.
4. Solve for d : $d = 8$. Therefore, there are 8 dogs.

Conclusion

Maths Mate 3 Chapter 30 is a crucial chapter for students to grasp essential mathematical concepts related to fractions, decimals, ratios, and problem-solving techniques. By understanding the types of questions commonly found in this chapter and employing effective strategies for solving them, students can enhance their mathematical skills significantly. Regular practice and applying these concepts in various contexts will help solidify their knowledge and prepare them for future challenges in mathematics. Whether it's through understanding fractions, manipulating decimals, or solving practical word problems, mastering the content of Chapter 30 is a stepping stone to achieving mathematical proficiency.

Frequently Asked Questions

What is 'Maths Mate 3 Chapter 30' about?

Maths Mate 3 Chapter 30 focuses on advanced mathematical concepts, including problem-solving techniques and application of arithmetic in real-world scenarios.

Where can I find the answers to 'Maths Mate 3 Chapter 30'?

Answers to 'Maths Mate 3 Chapter 30' can typically be found in the teacher's edition of the workbook or through educational resource websites that provide study guides.

Are the answers to 'Maths Mate 3 Chapter 30' available online?

Yes, many educational websites and forums offer solutions for 'Maths Mate 3 Chapter 30', but it's important to ensure the sources are credible.

How can I effectively understand the concepts in 'Maths Mate 3 Chapter 30'?

To understand the concepts in 'Maths Mate 3 Chapter 30', practice the exercises, seek help from teachers or peers, and utilize online tutorials for difficult topics.

What are common challenges students face in 'Maths Mate 3 Chapter 30'?

Common challenges include difficulty with word problems, applying mathematical concepts to real-life situations, and understanding abstract ideas presented in the chapter.

Is there a study guide available for 'Maths Mate 3 Chapter 30'?

Yes, there are study guides available that summarize key concepts and provide practice problems specifically for 'Maths Mate 3 Chapter 30'.

How can I prepare for a test on 'Maths Mate 3 Chapter 30'?

To prepare for a test on 'Maths Mate 3 Chapter 30', review all exercises, understand the underlying concepts, and take practice tests to gauge your understanding.

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