

6th Grade Math Word Problems With Answers

Name _____

Date _____



PERCENTAGE WORD PROBLEMS 6.2A

Find the answers to these percentage word problems.

Round your answers to the nearest whole number where appropriate.

- 1) A pie shop sells 32 apple pies, 33 pumpkin pies, 20 cherry pies, and 15 chocolate pies.
What percentage of pies sold were apple or cherry?



- 2) Newton watches a movie with his friends. They watch 50% of the movie and then take a break. They then watch the remaining 65 minutes. How long was the movie?



- 3) Captain's Autos sells 22 used cars on Monday, and 18 cars on Tuesday. This was 25% of the number of sales for the week. How many cars did they sell altogether that week?



- 4) Sally spends 15% of her weekly budget on food, and 35% on rent. She has \$350 left over. How much was her budget?



- 5) There are 30 6th graders and 40 7th graders in a group. 10% of the 6th graders and 25% of the 7th graders are vegan. How many vegans are in the group altogether?



- 6) Tyger and Newton have a long jump competition. Tyger jumps 20% further than Newton. If Newton jumps 400 cm, how far does Tyger jump?



6th grade math word problems with answers are essential for helping students develop critical thinking and problem-solving skills. As students transition into middle school, they encounter increasingly complex concepts, and word problems are a key part of that learning journey. This article will explore various types of 6th-grade math word problems, provide examples, and offer detailed solutions to help students understand how to approach these challenges effectively.

Understanding the Importance of Word Problems

Word problems serve multiple functions in mathematics education. They help students:

1. Apply Mathematical Concepts: Word problems require students to use their knowledge of math operations and concepts to solve real-world scenarios.
2. Enhance Critical Thinking: Analyzing what is being asked in a problem improves logical reasoning and analytical skills.
3. Develop Reading Comprehension: Students must read and interpret the problems, which aids in language skills as well.
4. Prepare for Higher-Level Math: The skills learned from solving word problems are foundational for advanced math topics in later grades.

Types of 6th Grade Math Word Problems

6th-grade math word problems can be categorized into several types, including:

1. Addition and Subtraction Problems

These problems often involve finding totals or differences in various contexts.

Example Problem: Sarah has 125 marbles. She gives 37 of them to her friend. How many marbles does Sarah have left?

Solution:

- Total marbles Sarah has = 125
- Marbles given away = 37
- Marbles left = $125 - 37 = 88$

Thus, Sarah has 88 marbles left.

2. Multiplication and Division Problems

These problems can involve scenarios such as finding the total of multiple items or sharing items equally.

Example Problem: A box contains 24 chocolates. If each child receives 4 chocolates, how many children can receive chocolates from the box?

Solution:

- Total chocolates = 24
- Chocolates per child = 4
- Number of children = $\text{Total chocolates} \div \text{Chocolates per child} = 24 \div 4 = 6$

Therefore, 6 children can receive chocolates.

3. Mixed Operations Problems

These problems require students to use multiple operations to arrive at the solution.

Example Problem: John has 150 toy cars. He buys 25 more and then gives away 30. How many toy cars does he have now?

Solution:

- Initial toy cars = 150
- Toy cars bought = 25
- Toy cars given away = 30

1. Calculate total after buying: $150 + 25 = 175$
2. Calculate remaining after giving away: $175 - 30 = 145$

Thus, John has 145 toy cars now.

4. Fractions and Decimals Problems

Word problems involving fractions and decimals can help students understand these concepts in practical situations.

Example Problem: A recipe calls for $\frac{3}{4}$ cup of sugar. If you want to make half the recipe, how much sugar do you need?

Solution:

- Sugar needed for full recipe = $\frac{3}{4}$ cup
- Sugar needed for half recipe = $(\frac{3}{4}) \times (\frac{1}{2}) = \frac{3}{8}$ cup

Therefore, you need $\frac{3}{8}$ cup of sugar for half the recipe.

5. Percent Problems

Problems involving percentages are crucial for understanding discounts, sales, and statistics.

Example Problem: A jacket originally costs \$80 but is on sale for 25% off. How much will you pay for the jacket?

Solution:

1. Calculate the discount: 25% of \$80 = $0.25 \times 80 = \$20$
2. Calculate the sale price: $\$80 - \$20 = \$60$

So, you will pay \$60 for the jacket.

6. Measurement Problems

These problems often include converting units or calculating areas and volumes.

Example Problem: A rectangular garden measures 10 feet in length and 5 feet in width. What is the area of the garden?

Solution:

- Area = Length \times Width = 10 ft \times 5 ft = 50 square feet

Thus, the area of the garden is 50 square feet.

7. Rate and Time Problems

These problems involve calculating speeds, distances, or times.

Example Problem: A car travels at a speed of 60 miles per hour. How far will it travel in 2.5 hours?

Solution:

- Distance = Speed \times Time = 60 miles/hour \times 2.5 hours = 150 miles

Therefore, the car will travel 150 miles.

Strategies for Solving Word Problems

When tackling 6th-grade math word problems, students can use several strategies to enhance their problem-solving skills:

1. Read the Problem Carefully: Understanding what is being asked is crucial. Highlight or underline key information.
2. Identify the Question: What exactly needs to be solved? Is it a total, difference, or something else?
3. Determine the Operations: Decide which mathematical operations are needed to solve the problem.
4. Write an Equation: Creating an equation helps in visualizing the problem.
5. Solve the Problem: Perform the calculations step by step.
6. Check Your Work: Review your solution to ensure it makes sense within the context of the problem.

Practice Problems for 6th Graders

Here are some additional practice problems for students to try on their own:

1. If a pizza is cut into 8 slices and you eat 3 slices, what fraction of the pizza is left?
2. A school has 450 students. If 60% are girls, how many boys are there?

3. If a swimming pool can hold 12,000 gallons of water, and it is currently filled to 75%, how many gallons of water are in the pool?
4. A book costs \$15. If you buy 4 books, how much will you spend in total?
5. A train travels 120 miles in 2 hours. What is its average speed in miles per hour?

Answers to Practice Problems

1. Remaining pizza = $8 - 3 = 5$ slices; Fraction left = $\frac{5}{8}$.
2. Girls = 60% of 450 = $0.60 \times 450 = 270$; Boys = $450 - 270 = 180$.
3. Water in the pool = 75% of 12,000 gallons = $0.75 \times 12,000 = 9,000$ gallons.
4. Total cost = $4 \times \$15 = \60 .
5. Average speed = Total distance \div Total time = $120 \text{ miles} \div 2 \text{ hours} = 60 \text{ miles/hour}$.

Conclusion

In conclusion, 6th grade math word problems with answers are a crucial component of mathematical education. By practicing these problems, students can improve their understanding of various math concepts and develop essential skills that will benefit them in future studies and real-life situations. Encouraging students to approach these problems methodically can make a significant difference in their confidence and ability to solve complex mathematical challenges.

Frequently Asked Questions

If a pencil costs \$0.50 and you buy 8 pencils, how much do you spend in total?

\$4.00

A recipe requires 3 cups of flour to make 12 cookies. How many cups of flour are needed to make 36 cookies?

9 cups

A car travels 60 miles per hour. How far will it travel in 3 hours?

180 miles

If a book contains 240 pages and you read 15 pages a day, how many days will it take to finish the book?

16 days

50 square centimeters

5 apples

2 hours and 30 minutes

2/5

<https://soc.up.edu.ph/58-view/files?trackid=IHe16-2541&title=the-cell-crossword-puzzle-answer-key.pdf>

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Unlock the secrets to solving 6th grade math word problems with our comprehensive guide! Get answers and tips to boost your skills. Learn more today!

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