

6th grade math sol study guide

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6th Grade Math SOL Study Guide: Tackling Important Concepts

As your 6th grader prepares for the Math Standards of Learning (SOL) exam, it's crucial to provide them with a comprehensive study guide. This article outlines key concepts and practice questions to enhance their understanding and prepare them for success.

Paragraph 1: Number Sense and Computation

- **Question 1:** Find the sum of $\frac{3}{5}$ and $\frac{1}{10}$.
- **Answer:** $\frac{4}{10}$
- **Question 2:** Subtract 0.45 from 1.23.
- **Answer:** 0.78

Paragraph 2: Measurement and Geometry

- **Question 3:** A rectangular prism has a length of 5 cm, width of 3 cm, and height of 4 cm. Find its volume.
- **Answer:** 60 cubic cm

- **Question 4:** A circle has a radius of 6 cm. Find its circumference.
- **Answer:** 12? cm or approximately 37.7 cm

Paragraph 3: Data Analysis and Statistics

- **Question 5:** A survey shows that 25% of students prefer math, 40% prefer science, and 35% prefer reading. If there are 120 students in the class, how many prefer science?
- **Answer:** 48 students
- **Question 6:** Create a box-and-whisker plot for the following data: 5, 7, 9, 10, 12, 15

Paragraph 4: Algebra and Functions

- **Question 7:** Solve for x: $2x + 5 = 11$
- **Answer:** $x = 3$
- **Question 8:** Find the slope of the line passing through the points (2, 3) and (5, 7).
- **Answer:** $4/3$

Paragraph 5: Probability and Statistics

- **Question 9:** A bag contains 3 red marbles and 5 blue marbles. If you pick a marble at random, what is the probability of picking a blue marble?

- **Answer:** $\frac{5}{8}$

- **Question 10:** A coin is flipped twice. What is the probability of getting tails both times?

- **Answer:** $\frac{1}{4}$

These questions provide a comprehensive overview of the key concepts covered in 6th grade math SOL. By practicing these and reviewing additional resources, your child can build confidence and enhance their chances of success on the exam.

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