

Name: _____

2003, Mathematics - Grade 10

Question 3: Multiple Choice

Number Sense and Operations

A book is 1 inch thick, not including the cover. If the book contains 364 sheets of paper, which measure is closest to the thickness of one sheet of paper?

- A. 0.003 in.
- B. 0.030 in.
- C. 0.300 in.
- D. 0.364 in.



2002, Mathematics - Grade 10

Question 36: Multiple Choice

Number Sense and Operations

A set contains the numbers

$$\frac{8}{2}, -2.3, 0, \frac{2}{7}, \sqrt{9}, 0.\overline{31}, \sqrt{15}, -12, 2\pi.$$

Which of the following statements is true?

- A. The set contains 8 irrational numbers.
- B. The set contains 7 irrational numbers.
- C. The set contains 3 irrational numbers.
- D. The set contains 2 irrational numbers.



2000, Mathematics - Grade 10

Question 20: Multiple Choice

Number Sense and Operations

Which of the following is an irrational number?

- A. $\frac{1}{3}$
- B. $0.\overline{304}$
- C. $\sqrt{0.9216}$
- D. $\frac{\pi}{10}$



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Question 39: Multiple Choice

Number Sense and Operations



Which of the following numbers is an irrational number?

- A. $\frac{22}{7}$
 - B. π
 - C. $\sqrt{9}$
 - D. 3.1416
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Question 35: Multiple Choice

Number Sense and Operations



If a is a real number and $a^2 < \sqrt{a}$ then

- A. $0 < a < 1$.
 - B. $a < 0$.
 - C. $-1 < a < 1$.
 - D. $1 < a$.
-

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Question 6: Multiple Choice

Number Sense and Operations



Which of the following yields a **negative** result?

- A. $(-5)^{16}$
- B. $(6 - 9)(-4 + 2)$
- C. $-3(-4)^9$
- D. -2^9

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Question 2: Multiple Choice

Number Sense and Operations



An auto mechanic tries a $\frac{5}{8}$ -inch wrench to loosen a bolt. This wrench almost fits but it is slightly too small.

Of the following wrench sizes given in inches, which is the **next larger** one?

- A. $\frac{7}{8}$
- B. $\frac{9}{16}$
- C. $\frac{3}{4}$
- D. $\frac{11}{16}$