

Grade 9 Exercise: Number Sense Review

SECTION A: Multiple Choice

Choose the correct answer and write only the letter (A–D).

1.1 What kind of number is $\sqrt{9}$?

- A. Irrational number
- B. Whole number
- C. Integer
- D. Both B and C

1.2 Which of the following is an irrational number?

- A. $4\frac{1}{2}$
- B. $\sqrt{16}$
- C. $\sqrt{7}$
- D. $0.\overline{3}$

1.3 Which set contains only prime numbers?

- A. {1, 3, 5, 7}
- B. {2, 13, 19, 23}
- C. {3, 9, 11, 17}
- D. {5, 15, 23, 29}

1.4 What are the factors of 18?

- A. {1, 2, 3, 6, 9, 18}
- B. {1, 2, 3, 6, 18}
- C. {2, 3, 6, 9}
- D. {1, 18, 36}

SECTION B: Classifying Numbers

Given the list:

$$\sqrt{36}, \quad 2.75, \quad \pi, \quad \frac{5}{3}, \quad \sqrt[3]{27}, \quad 4\frac{1}{8}, \quad \sqrt{2}, \quad 0$$

1.1 List all the **rational numbers** from the list above.

1.2 List all the **irrational numbers** from the list above.

SECTION C: Factors and Multiples

Use the set {1, 2, 3, ..., 30} for questions 1 and 2.

From the set, list:

- a. Factors of 18
- b. Prime factors of 18
- c. Multiples of 9
- d. Prime numbers between 10 and 30

Write down:

- a. Factors of 28
- b. First four multiples of 15
- c. Prime factors of 28