

Name

Class

Date

Introduction to Set Theory

Total questions: 12

Worksheet time: 6mins

1. What is NOT a method to designate a set?

- | | |
|-------------------|-------------------------|
| a) Listing Method | b) Word Descriptions |
| c) Numbers | d) Set Builder Notation |

2. What does this symbol mean {}?

- | | |
|--------------|-------------|
| a) Empty Set | b) Null Set |
| c) Elements | d) Sets |

3. What number is not in the following set? {2,4,6-5,7-4}

- | | |
|-------|------|
| a) -5 | b) 6 |
| c) 7 | d) 3 |

4. What does this $\in$ mean?

- | | |
|-------------------|--------------|
| a) Null Set | b) Element |
| c) Not an Element | d) Empty Set |

5. Determine which number $\in \{2, 4, 6, 8, 10\}$

- | | |
|------|------|
| a) 1 | b) 2 |
| c) 3 | d) 5 |

6. Determine which number $\notin \{2, 4, 6, 8, 10\}$

- | | |
|------|------|
| a) 2 | b) 4 |
| c) 5 | d) 6 |

7. What method is this set in?

The numbers less than 8

a) Listing Method

b) Set Builder Notation

c) Word Description

8. What method is this set in?

$\{1, 2, 3, 4, 5, 6, 7\}$

a) Listing Method

b) Set Builder Notation

c) Word Description

9. What method is this set in?

$\{x|x \text{ is the numbers less than } 8\}$

a) Listing Method

b) Set Builder Notation

c) Word Description

10. What is NOT an example of a natural number?

a) 0

b) 1

c) 2

d) 3

11. Which one is a irrational number?

a) $\sqrt{10}$

b) $\sqrt{81}$

c) -5

d) 4.5

12. What set correctly identifies the set of integers?

a) $\{\dots-1, 0, 1, \dots\}$

b) $\{0, 1, 2, 3, \dots\}$

c) $\{1, 2, 3, \dots\}$