

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