

NAME _____

DATE _____

Module 1 Getting Ready for Algebra
Lesson 1 Defining Sets and Real Numbers



**guided
practice**

Set 1

1. Name a subset of P.

$$P = \{2, 3, 5, 7, 11, 13\}$$

2. What is the intersection of sets X and Y?

$$X = \{3, 6, 9, 12, 18\}$$

$$Y = \{6, 12, 18, 24, 30\}$$

3. What is the union of sets X and V?

$$X = \{3, 4, 6, 9\}$$

$$V = \{3, 7, 10\}$$

4. Which two sets are disjoint? Draw a Venn

diagram of the two disjoint sets.

$$R = \{1, 2, 4, 6, 9\}$$

$$S = \{2, 5, 7, 10\}$$

$$T = \{3, 4, 6, 9, 22\}$$

Set 2

1. The days in a month are **best** represented as elements of which real number set?

2. Give an example of a whole number that **is not** a natural number.

3. Which integers **are not** whole numbers?

Set 3

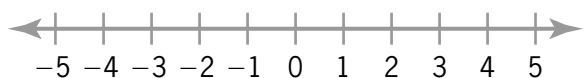
1. To which real number sets does -4 belong?

2. To which real number sets does $\sqrt{5}$ belong?

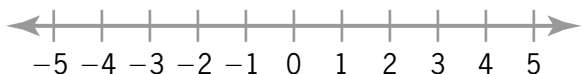
3. To which real number sets does $\sqrt{4}$ belong?

Set 4

1. Graph $2\frac{1}{4}$ on the number line.



2. Graph $-\frac{5}{8}$ on the number line.



3. Graph 3.8 , 2 , $\sqrt{12}$, and $\frac{1}{3}$ on the number line.

