Identifying and Understanding Venn Diagram Sets
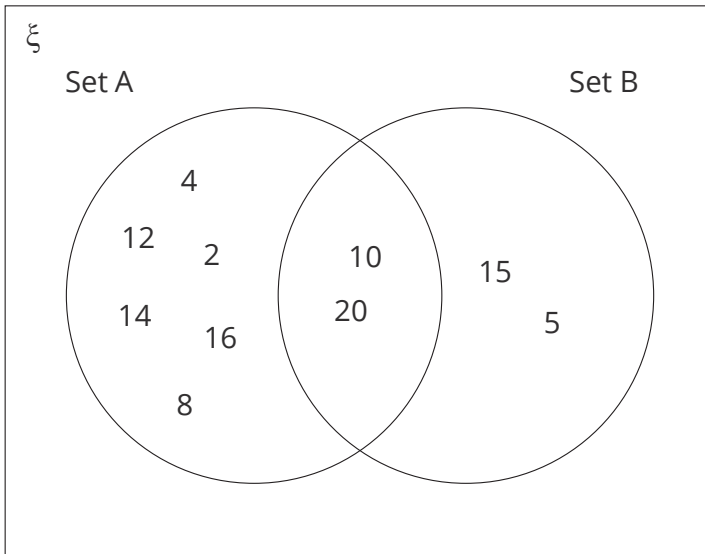
1. The Venn diagram shows some information about sets A and B.
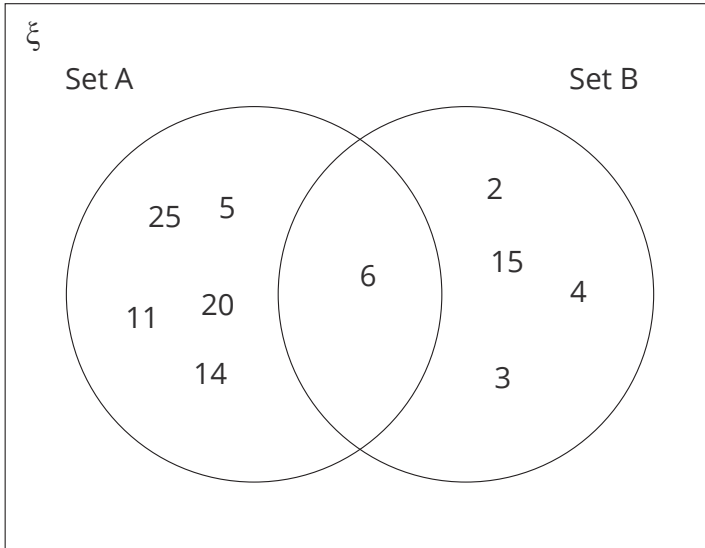
ξ

Set A   Set B

4

12   2   10   15

14   20

16   5

8

a. Write down the elements in set A.

_____

_____

b. Write down the elements that are in both set A and B?

_____

c. How many elements are in set B?

_____
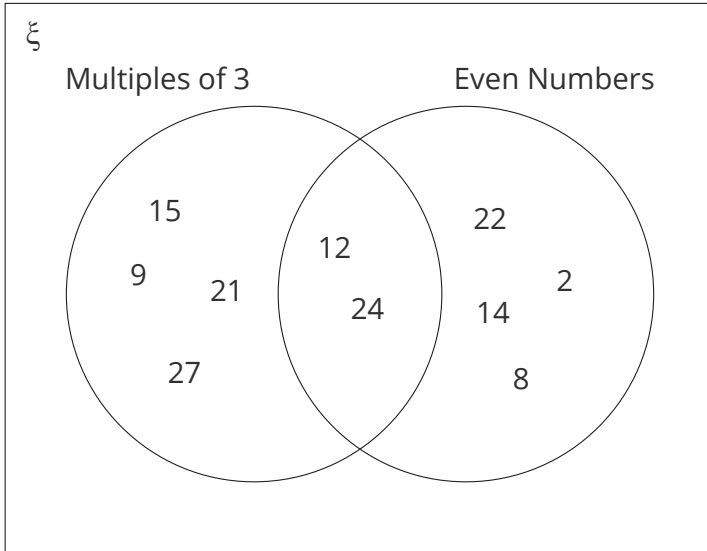
2. The Venn diagram shows some information about sets A and B.

ξ

Set A   Set B

2

25   5

15

6   4

11   20

14   3

a. Write down the elements in set B.

_____

b. How many elements are in both set A and B.

_____

c. How many elements are in set A?

_____

3. The Venn diagram shows some information about two sets.

ξ

Multiples of 3   Even Numbers

15
12
9
21
24
22
2
14
27
8

a. Write down all the multiples of 3 shown in the Venn diagram.

_____

b. Write down two even multiples of 3.

_____

4. The Venn diagram shows some information about two sets.

ξ

Name of Animals   Words that are 5 letters long

Lion
Duck
Cat
Giraffe
Dog
Sheep
Tiger
Shoes
Dream
Bench
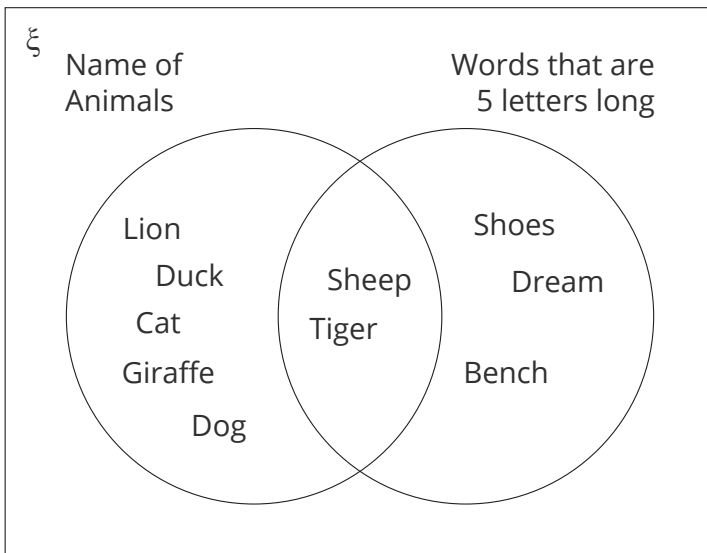
a. How many words are 5 letters long?

_____

b. Write down the elements in set A. Use the form A = {names of animals}.

_____

_____

5. A is the set of square numbers between 20 and 50. Write the information out in full, using set notation.

A = { _____ }

6. Write out the following sets in full:

ξ = {months of the year}

_____

_____

A = {months beginning with a J}

_____

B = {months with a letter R in the name}

_____

7. Write out the following sets in full:

ξ = {days of the week}

_____

A = {days beginning with a T}

_____

B = {days with a letter E in the name}

_____

8. Write out the following sets in full:

ξ = {the first 10 multiples of 7}

_____

A = {multiples less than 50}

_____

B = {even numbers}

_____

9. If ξ = {football, netball, swimming, rugby, snooker, running, cricket}, write out the following sets in full:

A = {ball games}

_____

B = {activities that can involve running}

_____

10. Write out the following sets in full:

ξ = {positive whole numbers less than 20}

_____

A = factors of 48

_____

B = cube numbers

_____

C = even numbers

_____