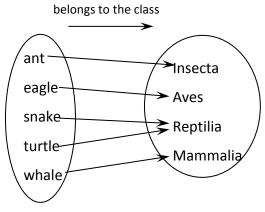
Math 10

<u>Lesson 3–1</u> Answers

Lesson Questions

Question 1

- a) The relation shows the association "belongs to the class" between a set of animals and a set of classes.
- b) i) {(ant, Insecta), (eagle, Aves), (snake, Reptilia), (turtle, Reptilia), (whale, Mammalia)} ii)



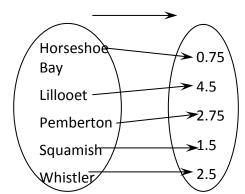
Question 2

Answer: a)

- /	
Town	Average Time (h)
Horseshoe Bay	0.75
Lillooet	4.5
Pemberton	2.75
Squamish	1.5
Whistler	2.5

b)

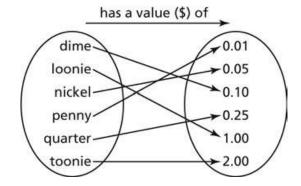
average time to drive to Vancouver



L3-1

Assignment

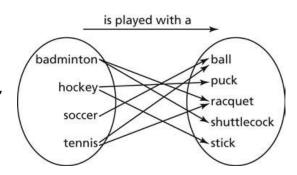
- 1. When we are trying to find trends or patterns in the numbers, some representations (table of data, graph, mapping, equation) reveal the pattern better than others (ordered pairs).
- 2. a)
 - The relation shows the association "has a value, in dollars, of" from a set of coins to a set of numbers.
 - ii) As a set of ordered pairs: {(penny, 0.01), (nickel, 0.05), (dime, 0.10), (quarter, 0.25), (loonie, 1.00), (toonie, 2.00)}



As an arrow diagram:

b)

- i) The relation shows the association "is played with a" from a set of sports to a set of equipment.
- ii) As a set of ordered pairs: {(badminton, racquet), (badminton, shuttlecock), (hockey, puck), (hockey, stick), (tennis, ball), (tennis, racquet), (soccer, ball)}

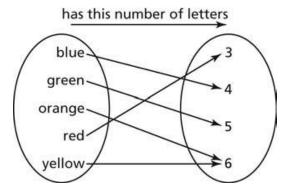


As an arrow diagram:

3. a) As a table:

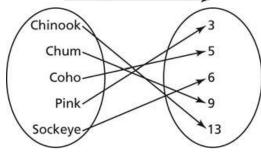
Word	Number of Letters
blue	4
green	5
orange	6
red	3
yellow	6

b) As an arrow diagram:



- 4. a)The relation shows the association "has a typical mass, in kilograms, of" from a set of salmon species to a set of masses.

 has a typical mass (kg) of
 - b) As a set of ordered pairs: {(Chinook, 13), (Chum, 9), (Coho, 5), (Pink, 3), (Sockeye, 6)}
 - c) As an arrow diagram:



5.

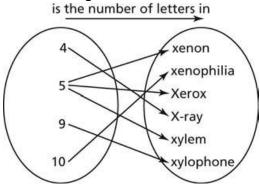
- The arrow diagram shows a relation with the a) association "is the number of letters in" from a set of numbers to a set of words beginning with the letter Z.
- b) As a set of ordered pairs: {(3, Zen), (4, zany), (4, zero), (5, zebra), (6, zombie), (7, Zamboni), (8, zeppelin)}

As a table:

Number	Word beginning with Z
3	Zen
4	zany
4	zero
5	zebra
6	zombie
7	Zamboni
8	zeppelin

Chosen words and representations may vary. For example:

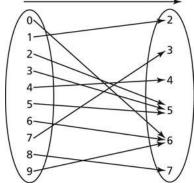
As an arrow diagram:



- 6.
- a) {(0, 6), (1, 2), (2, 5), (3, 5), (4, 4), (5, 5), (6, 6), (7, 3), (8, 7), (9, 6)} Some digital clocks may show the number 9 with 5 line segments.
- b) Representations may vary. For example:

As an arrow diagram:

has this number of lit segments



As a table of values:

Digit	Number of lit segments
0	6
1	2
2	5
3	5
4	4
5	5
6	6
7	3
8	7
9	6

L3-1