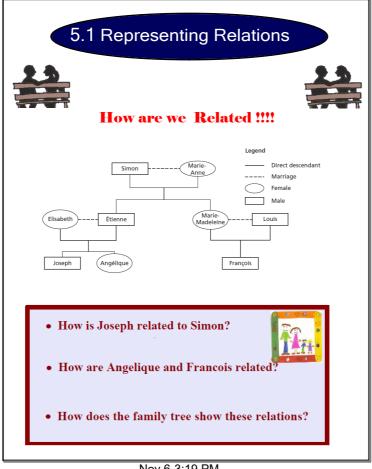


Oct 27-9:45 AM



Nov 6-3:19 PM

Terminology

A set is a collection of distinct objects.

Set of Fruit

Fruit

apple

blueberry

cherry

huckleberry

Set of Colours

Colour

red

green

blue

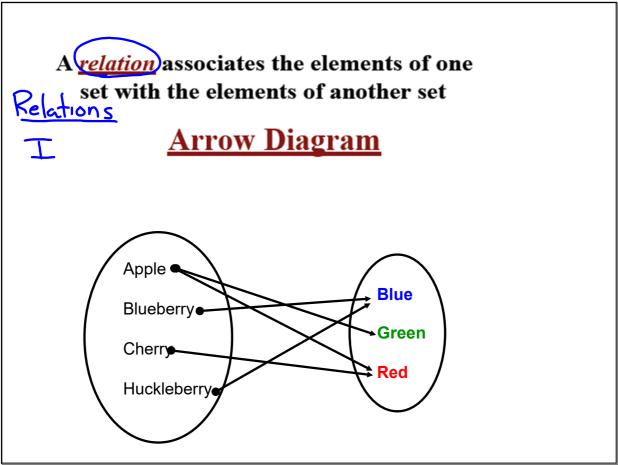
Nov 6-3:39 PM

An element of a set is one object in the set.



Set of Fruit
Fruit
apple
blueberry
cherry
huckleberry

Apple is an element of the set of Fruit



Nov 6-3:55 PM

Some other ways to display the relation:



Use a table



Fruit	Colour
apple	red
apple	green
blueberry	blue
cherry	red
huckleberry	blue



Nov 6-3:42 PM

Use a set of <u>ordered pairs</u> to display a relation.

Nov 6-3:42 PM

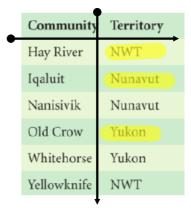
4. Graph

5. Written explanation

example: The relation shows the association between fruit and colour.

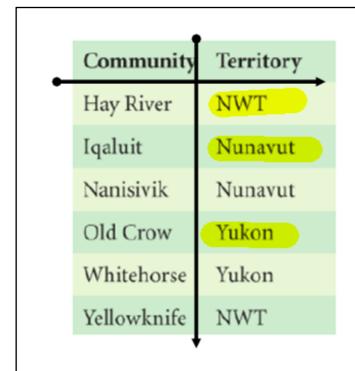
Northern communities can be associated with the territories they are in.



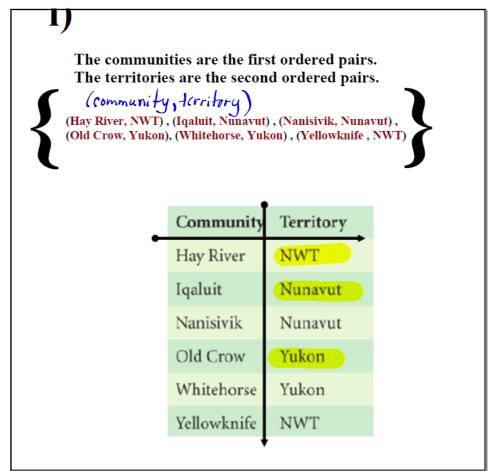


- a) Describe this relation in words.
- b) Represent this relation:
 - i) as a set of ordered pairs
 - ii) as an arrow diagram

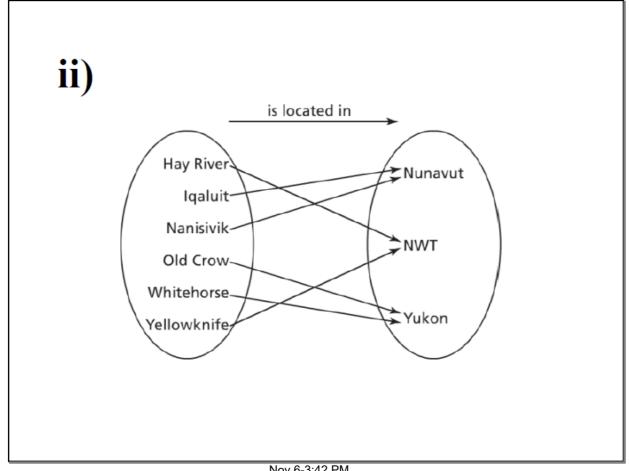
Nov 6-3:42 PM



The relation shows the association between a community and its territory.



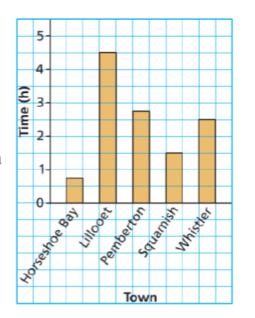
Nov 6-3:42 PM



Nov 6-3:42 PM



Different towns in British Columbia can be associated with the average time, in hours, that it takes to drive to Vancouver.

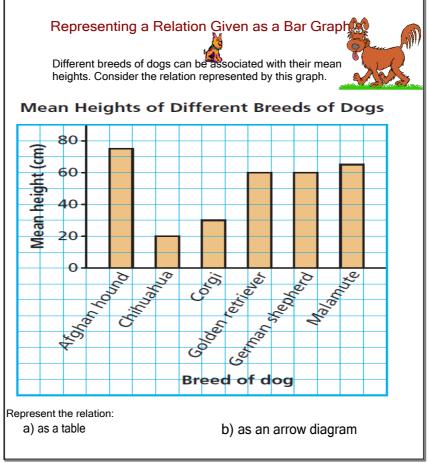


Represent the relation as a table.

Nov 6-3:43 PM

solution:

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



Nov 6-4:14 PM

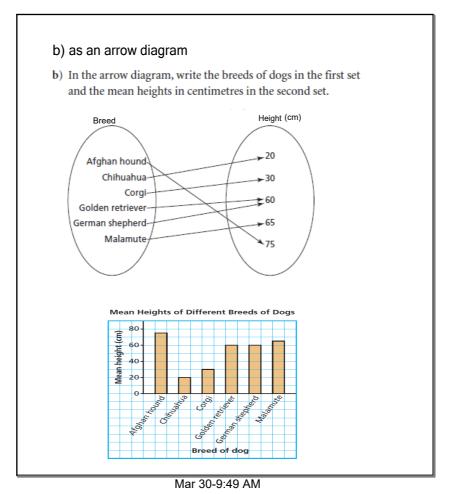
Represent the relation:

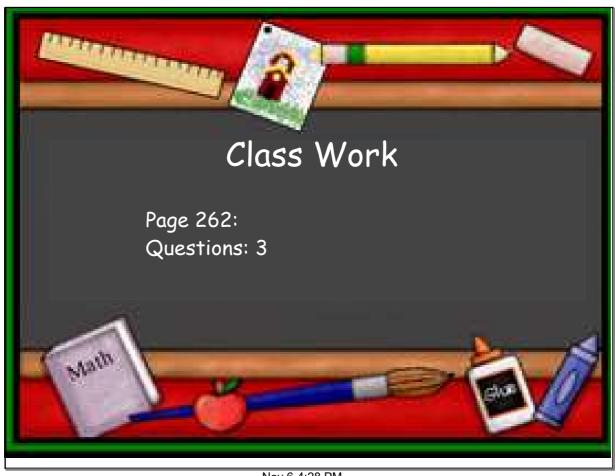
a) as a table

In the table, write the breeds of dogs in the first column and the mean heights in centimetres in the second column.

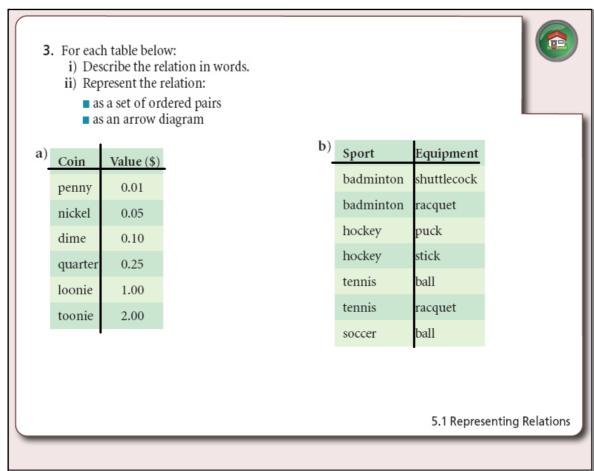
reed of Dog	Mean Height (cm)
Afghan hound	75
Chihuahua	20
Corgi	30
Golden retriever	60
German shepherd	60
Malamute	65

Nov 6-4:23 PM

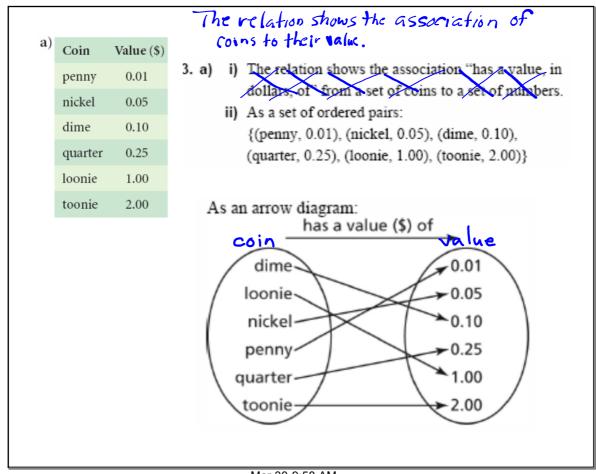


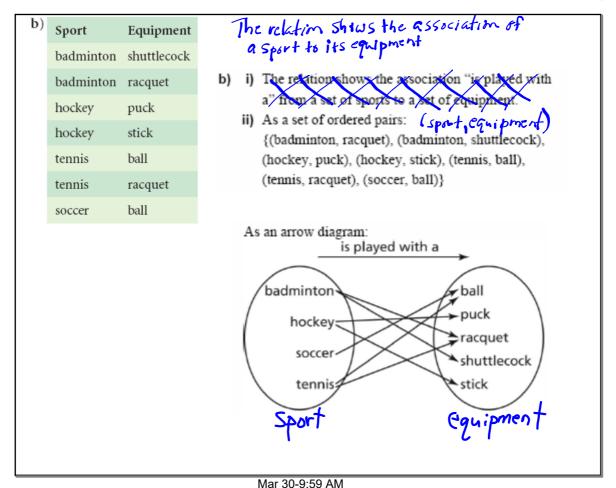


Nov 6-4:28 PM



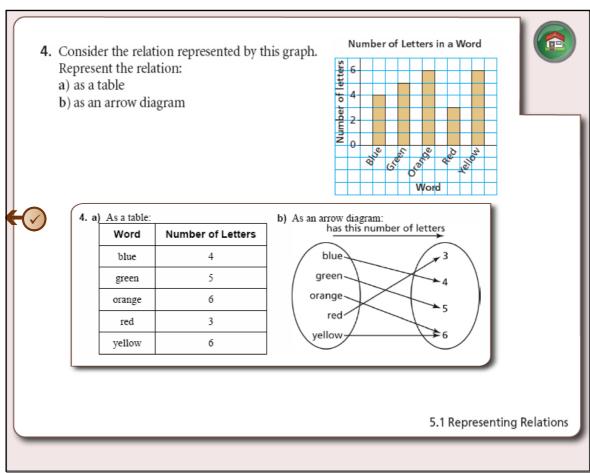
Exercise #3



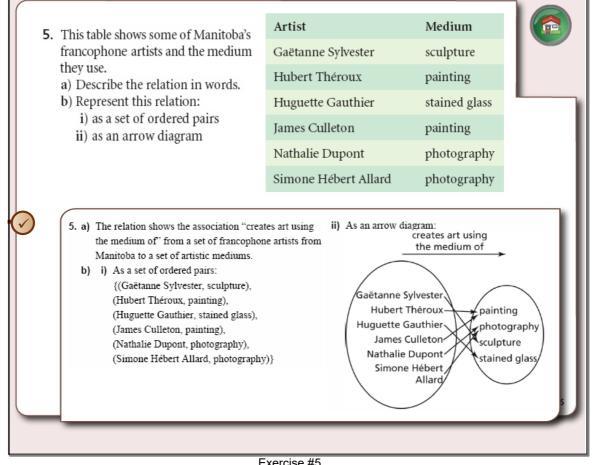


Homework

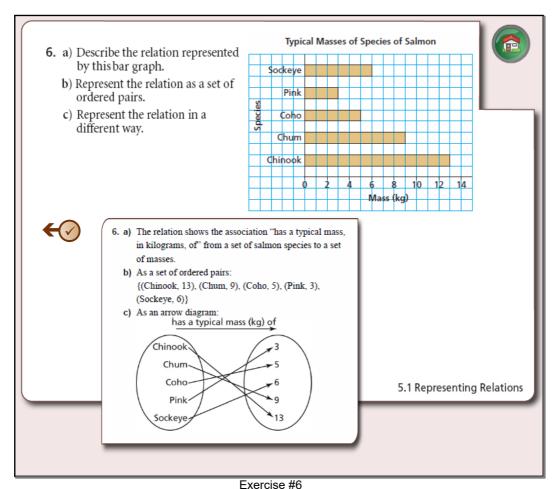
Page 262-263 4, 5, 7, 13, 14



Exercise #4

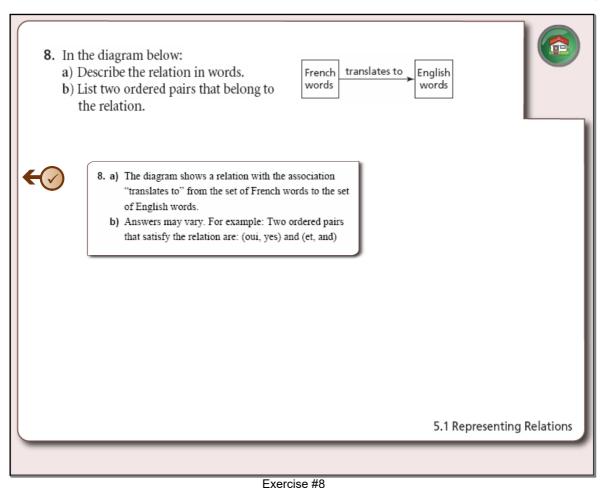


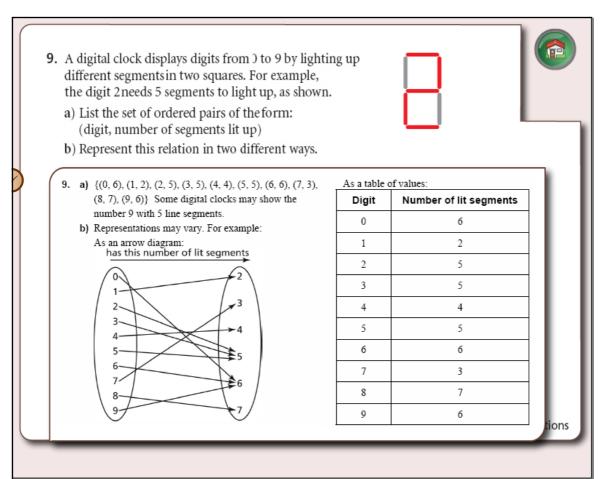
Exercise #5

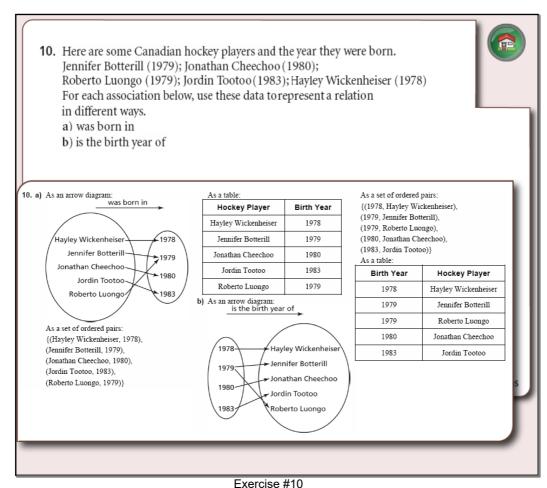


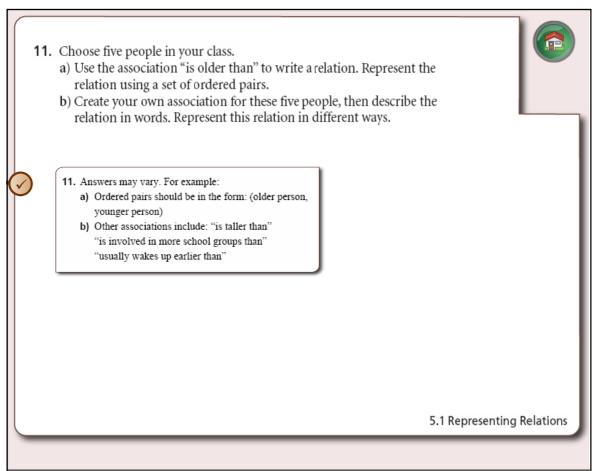
is the number of letters in 7. For a word game, words that begin with the letter Z can be difficult to find. Zamboni a) What does this arrow diagram represent? b) Represent this relation in two different ways. c) Create an arrow diagram for words -zeppelin beginning with the letter X, then represent the relation in two different ways. 7. a) The arrow diagram shows a relation with the c) Chosen words and representations may vary. Fo. As a set of ordered pairs: association "is the number of letters in" from a set of example: {(4, X-ray), (5, xenon), (5, Xerox), (5, xylem), numbers to a set of words beginning with the letter Z. As an arrow diagram: is the number of letters in (9, xylophone), (10, xenophilia)} b) As a set of ordered pairs: As a table {(3, Zen), (4, zany), (4, zero), (5, zebra), (6, zombie), Number Word beginning with X xenon (7, Zamboni), (8, zeppelin)} , xenophilia X-ray As a table: Number Word beginning with Z ► Xerox X-ray xylem zany xylem xylophon zero xylophone zebra 10 xenophilia 6 zombie 7 Zamboni ons zeppelin

Exercise #7

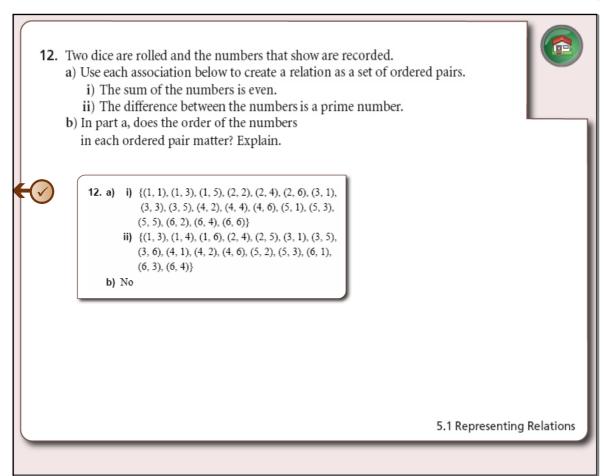




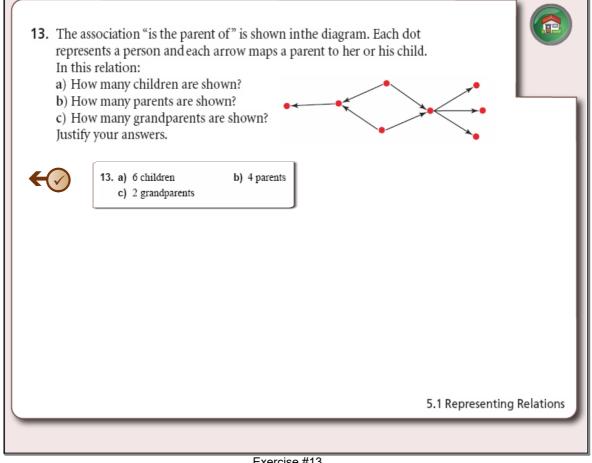




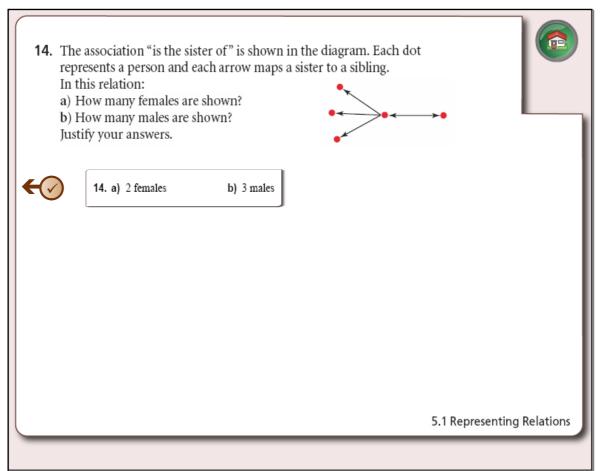
Exercise #11



Exercise #12



Exercise #13



Exercise #14