

Probability & Data Management

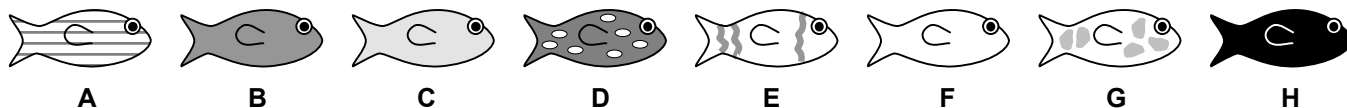
Unit Test

Name: _____

Date: _____

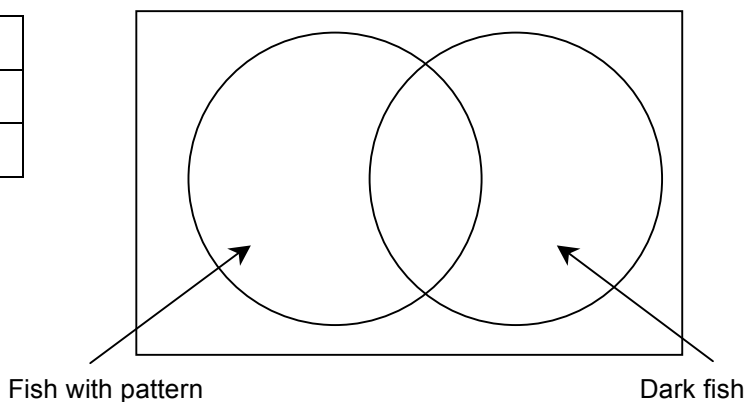
Section A

1. Rene's class has a fish tank. It contains a variety of small fish, each with different characteristics:



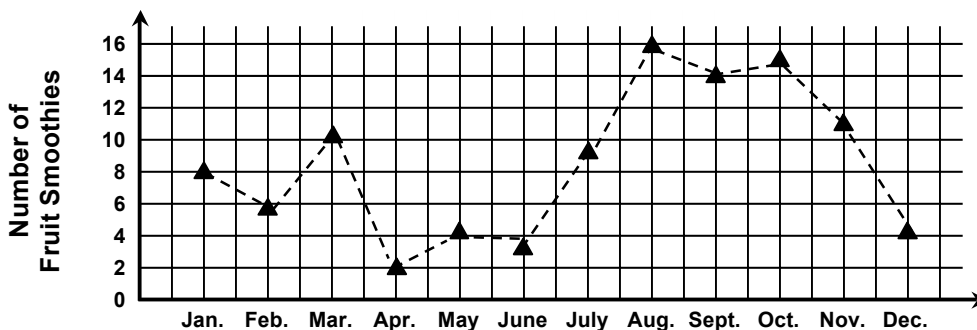
Complete the table. Then sort fish into Venn diagram.

Category	Fish (by letter)
Fish <u>with</u> a pattern	A,
Dark fish	B,



2.

Anne's Fruit Smoothie Intake over the Past Year



Use the above line graph to answer the following questions:

- In which month did Anne drink: (i) the most smoothies? (ii) the least smoothies?
- How many smoothies did Anne drink: (i) in March? (ii) in October?
- In which months did Anne drink more than 6 smoothies?

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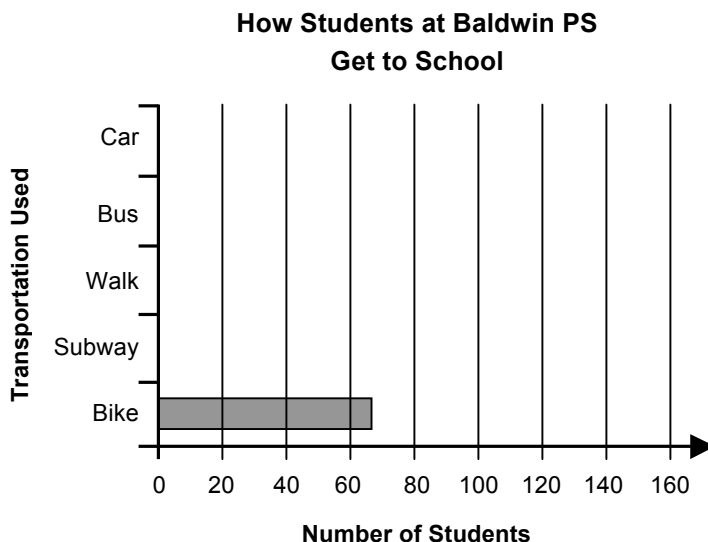
Section A (continued)

3. In order to identify how their fellow students got to school, a Grade 5 class at Baldwin Public School designed a short survey and gave it to every student in the school.

a) Using the final results (below), complete the bar graph provided:

HINT: In this bar graph, the bars will run horizontally. The first one has been done for you.

Transportation Used to Get to School	Number of Students
Bike	66
Subway	33
Walk	138
Bus	156
Car	22



Next, answer the following questions:

b) Identify the scale used in the bar graph (e.g. what it counts by and when it stops). Do you think it was a good choice? Why or why not?

c) How do the students at your school get to school? Would you predict similar or different results than those at found at Baldwin PS? Explain.

4. Melanie surveyed her friends about their favourite authors. Here are her results:

J.K. Rowling	Lemony Snicket	Tamora Pierce	Cornelia Funke	Louis Sachar	Kenneth Opel
11	4	6	7	5	3

If you were Melanie, how would you choose to display your data? Why?

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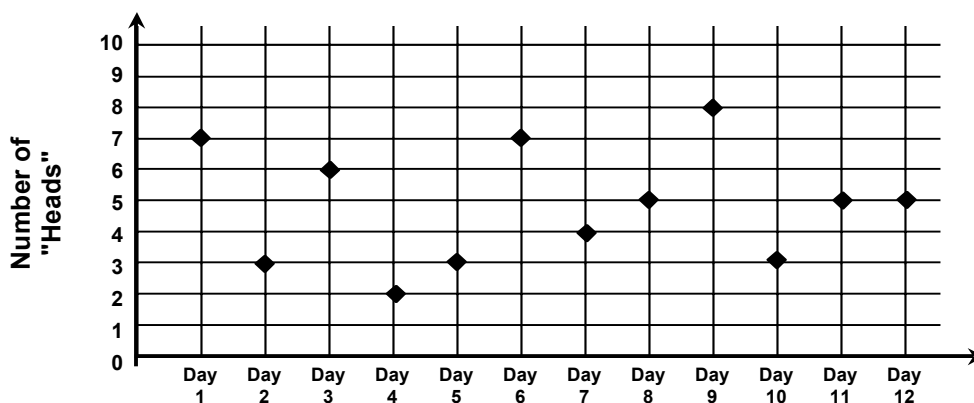
Unit Test

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Section A (continued)

5. Ms Young's Grade 5 class carried out an experiment: each day (for 12 days) they dropped 10 pennies on the ground. They counted the number of pennies that came up "heads" and created the following scatter plot graph:



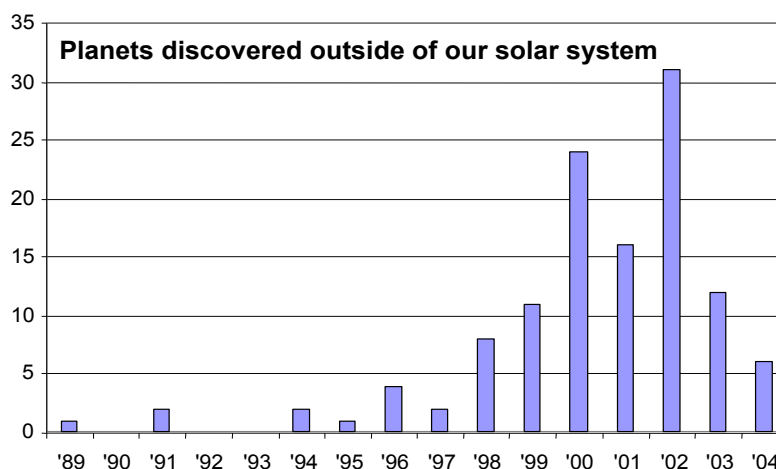
Read the scatter plot carefully and complete the result chart below (the first day has been done for you):

Day	1	2	3	4	5	6	7	8	9	10	11	12
Number of Pennies	7											

6. The following graph from a newspaper article shows how many new planets have been discovered by astronomers:

a) How many more planets were discovered in 2002 than in 2004?

b) In which years were more than 15 planets discovered?



c) Between which years were at least 5 planets discovered each year?

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Date: _____

Section B

7. Find the range of the following data sets:

HINT: Don't forget to re-write the list in order from lowest to highest first!

a) 45, 27, 14, 95, 44, 8

b) 124, 46, 34, 71, 24, 355

c) 56, 37, 7, 44, 28, 422, 80

Range: ____ to ____

Range: ____ to ____

Range: ____ to ____

8. Find the mean of the following data sets:

a) 5, 1, 7, 2, 8, 7

b) 6, 3, 7, 15, 11, 10, 11

c) 17, 6, 12, 4, 21

____ + ____ + ____ + ____ = ____

____ ÷ ____ = ____

Mean: _____

Mean: _____

Mean: _____

9. Find the mode of the following data sets:

a) 3, 8, 8

b) 30, 22, 52, 30

c) 7, 7, 4, 5, 7, 4, 4, 7, 9

Mode: _____

Mode: _____

Mode: _____

d) 53, 57, 35, 57, 75, 58

e) 18, 88, 81, 8, 88, 88, 18

f) 17, 17, 4

Mode: _____

Mode: _____

Mode: _____

10. Find the median of the following data sets:

HINT: Don't forget to rewrite the list in order from lowest to highest first!

a) 10, 18, 4, 13, 5

b) 32, 33, 63, 16, 8, 13, 19

c) 72, 22, 43, 6, 61, 77, 18

Median: _____

Median: _____

Median: _____

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Date: _____

Section B (continued)

11. Mrs. Gatlin gave her students a spelling test (marked out of 20) and entered all the marks in the chart:

11	14	18	10	11	15	10	16	9
19	15	19	19	20	20	19	20	5

a) Create a stem and leaf plot of the data.

b) Find the range, mode, median, and mean of the data. Which is hardest to read from stem and leaf plot?

range: _____

mode: _____

median: _____

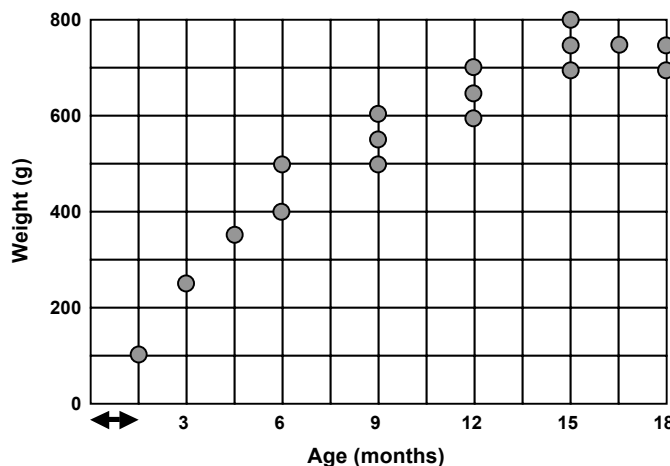
mean: _____

c) Tom's mark is 15. Which of the following statements he told his parents were true? Explain using the mean, mode, and median.

- i) My grade is average.
- ii) I am in the top half of the class!
- iii) This is the most common mark!

12. Marisa made a scatter plot of her pet rabbits' weight:

- a) How many months does the interval shown by the arrow represent?
- b) How many weeks does the interval represent?
- c) Describe any trends you see in the graph.



d) Circle on the graph the point that shows a 6 month old rabbit with weight of 500g.