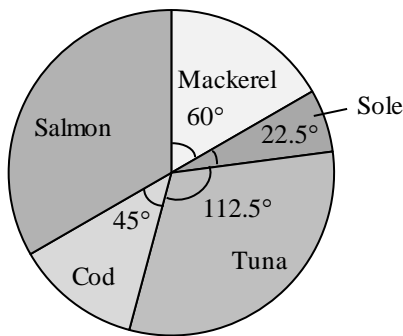


## TB(1B) Ch. 14 Simple Statistical Diagrams and Graphs (I) Multiple Choice Questions

1. [11-12 Final Exam Q12]

The following pie chart shows the types of fish a fisherman sold in one day. If a total of 240 fish are sold, how many salmon did the fisherman sell in one day?

The types of fish a fisherman sold in one day



- A. 33
- B. 75
- C. 80
- D. 160

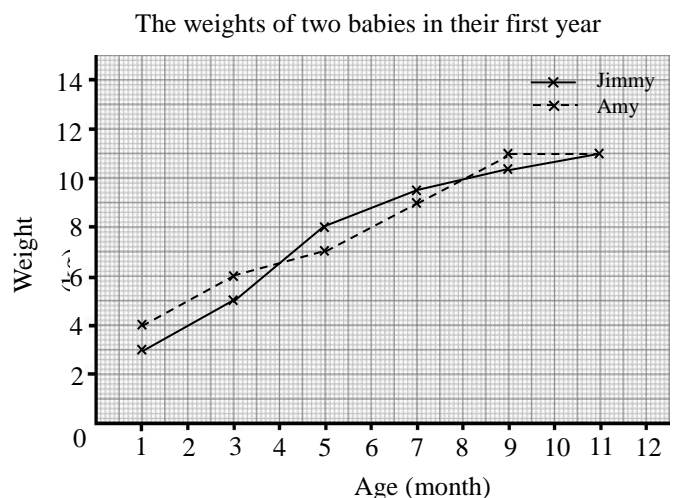
2. [12-13 Final Exam Q13]

The weights of 2 babies Jimmy and Amy are recorded in the following broken line graph.

Which of the following statements must be true?

- I. Their weights are equal in the 12<sup>th</sup> month.
- II. Jimmy is heavier than Amy in the 7<sup>th</sup> month.
- III. The weight and the age of each of the two babies have a positive relationship.

- A. III only
- B. I and II only
- C. II and III only
- D. I, II and III



3. [12-13 Final Exam Q14]

The following table shows an extract of the distribution of Happy Planet Index (HPI) of 150 countries.

HPI	Class boundaries	Class mark	Frequency
41 – 45	X	43	7
46 – 50	45.5 – 50.5	Y	11

Find the class boundaries X and class mark Y.

- |    |             |          |
|----|-------------|----------|
|    | <u>X</u>    | <u>Y</u> |
| A. | 40 – 46     | 47.5     |
| B. | 40.5 – 45.5 | 48       |
| C. | 41 – 45.5   | 48       |
| D. | 41 – 45.5   | 53       |

4. [13-14 Final Exam]

The stem-and-leaf diagram shows the Mathematics test marks of 25 students in S.1W. The passing mark is 50. Find the percentage of students who failed the test.

Stem marks)	(10	Leaf (1 mark)
2		1 1
3		5 7 8
4		0 0 4 5
5		0 1 1 8
6		1 3 3 3
7		4 8 9
8		1 5
9		2 4 4

- |        |        |
|--------|--------|
| A. 20% | B. 28% |
| C. 36% | D. 64% |

5. [14-15 Final Exam]

The stem-and-leaf diagram below shows the distribution of the ages of workers in a company. Find the number of workers who are not older than the age of 34.

Stem (tens)		Leaf (units)
2		0 3 6 6 7
3		1 4 4 7 8 9 9
4		2 5 5 6 6

5	4	7
6	3	

- A. 6                                      B. 8  
 C. 12                                     D. 14

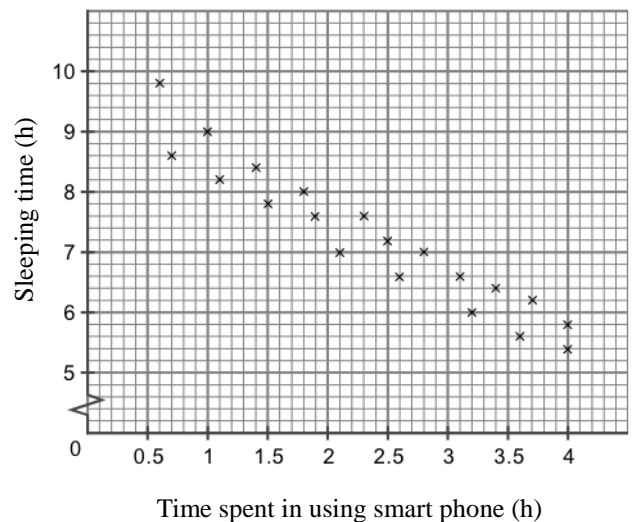
6. [14-15 Final Exam]

20 students were interviewed about their time spent on using smart phone and sleeping. The following scatter diagram shows the data. Which of the following statements are true?

- I. There is a negative relationship between the average daily time spent on using smart phone and sleeping.
- II. 5 students sleep more than 8 hours a day.
- III. The scatter diagram can be used to estimate the sleeping time of a student who spends 2 hours daily on using smart phone.

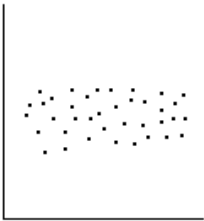

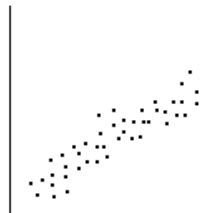
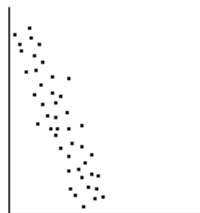
- A. I and II only  
 B. I and III only  
 C. II and III only  
 D. I, II and III

Average daily time spent by 20 students on using smart phone and their daily sleeping time



7. [15-16 Final Exam, #9]

Which of the following figures shows a negative relationship between two sets of data?

- A.       B. 
- C.       D. 

~ End ~