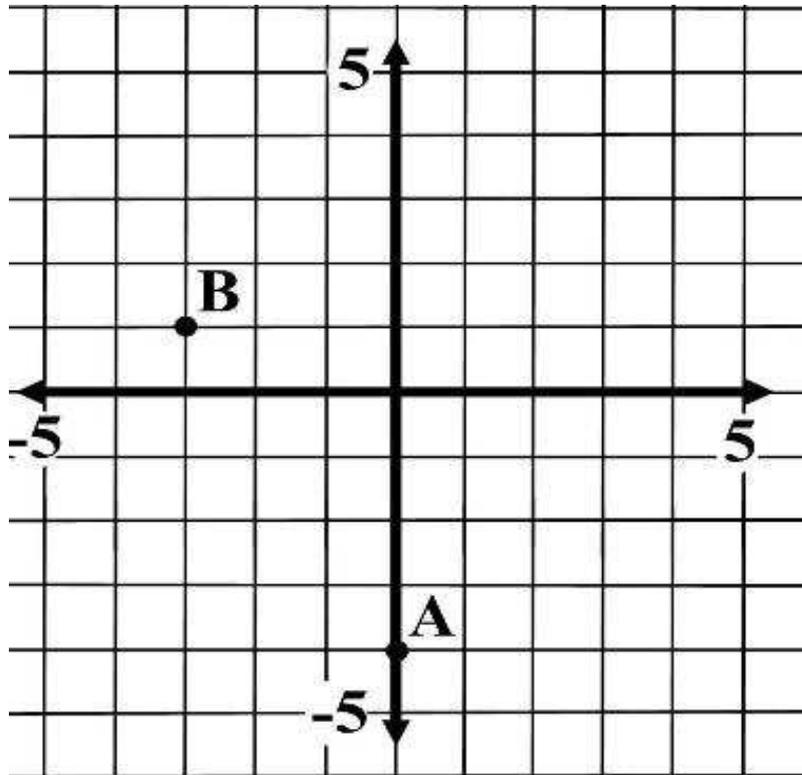


## Int 1 Unit 2 Specimen NAB

- 1) a) State the coordinates of the points A and B in the diagram below
- b) Copy the diagram and plot and label the two points J (5,-3) and K (-3,3).



- 2) Three pupils got to the finals of the school's General Knowledge Quiz. There were 3 rounds where points were given for correct answers and points deducted for wrong ones.

The points scored are shown below..

Tom scored -4, -7 and 7

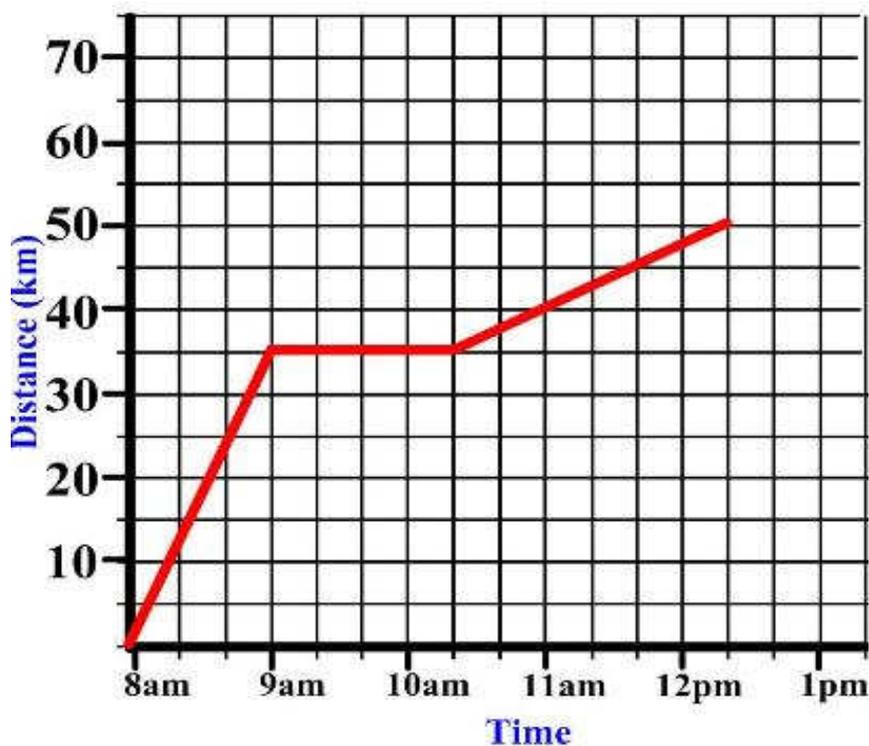
Calum scored 2, -7 and -9

Ailsa scored -9, -2 and -5

- a) What was the total scored by Calum?
- b) What was the total scored by Ailsa?
- c) A 4<sup>th</sup> pupil, Angela, scored a total of 4. By how much did Angela beat Tom?

- a) -14  
b) -14  
c) 8

- 3) The graph shows Andrew's journey to the coast. He stopped off for a snack along the way.
- a) How far did Tom travel before stopping for his snack?
  - b) How long did his snack last?
  - c) How can you tell from just looking at the graph which part of Andrew's Journey had the greater average speed?



- a) 40 km
- b) 30 min
- c) steepness of line

- 4) A coach travels at a speed of 69 mile per hour for 6 hours.

Find the distance travelled by the coach.

414 miles

- 5) A plane files for 577.5 kilometres at a speed of 110 kilometres per hour.

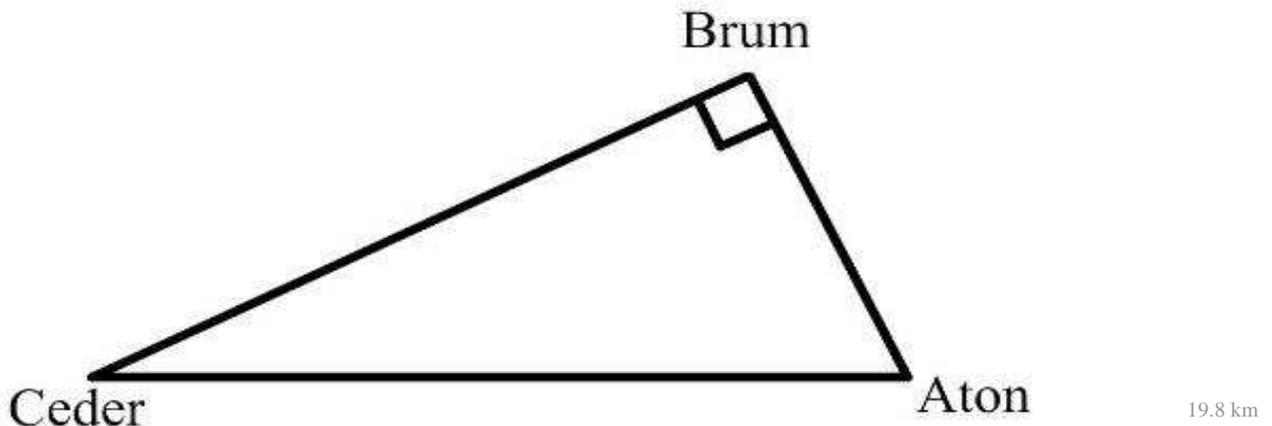
How long does the flight take?

5 hr 15 mins

6) The diagram shows the position of 3 towns

The distance from Ceder to Brum is 14 km and the distance from Brum to Aton is 14 km.

Calculate the distance from Ceder to Aton.



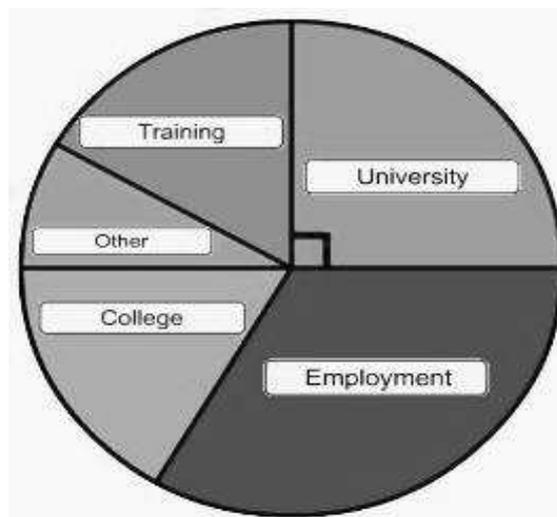
7) 16 calves were fed a special diet for 3 months. The weight gained in kilograms for each animal was recorded.

26, 35, 41, 2, 23, 11, 40, 6, 1, 8, 40, 26, 14, 20, 5, 6

- a) Write down the minimum and maximum weight gained.
- b) Put the information onto a stem and leaf diagram. Remember to include a key for the diagram.

8) Last year, 216 pupils left Gracemount High School. The pie-chart shows what they did when they left school.

How many students went to University?



- 9) A computer program simulates rolling a dice. Here are the scores produced by the computer.

4, 2, 5, 5, 1, 6, 5, 6, 2, 4, 4, 4, 2, 4, 2, 6, 3, 1, 3, 6

- a) Put this information into a frequency table
- b) The computer is expected to produce approximately equal numbers of each score. Comment on how well the computer appears to be doing its job.



- 10) Two judges were making dogs in a dog grooming competition. Here are the scores for 6 dogs.

1st Judge	41	35	14	34	27	27	30	36	14	30	
-----											
2nd Judge	17	30	69	33	51	60	43	39	82	29	

- a) Put this information onto a scattergraph.
- b) Draw a best-fitting straight line.
- c) Rover was given a mark of 100 by the first judge. Use your graph to estimate what the 2nd judge might award Rover.

11) Look at this set of test scores.

9, 4, 1, 17, 6, 17, 15, 11, 12, 4, 11, 6, 5, 9, 3, 15, 3, 4

a) Calculate the mean score.

b) Calculate the median score.

c) Calculate the modal score.

d) Calculate the range

a) mean 8.4b

12) A spinner has 10 edges with different numbers between 1 and 10. When it is spun, it comes to rest pointing to one number.

What is the probability it comes to rest pointing to a 10?

1 / 10