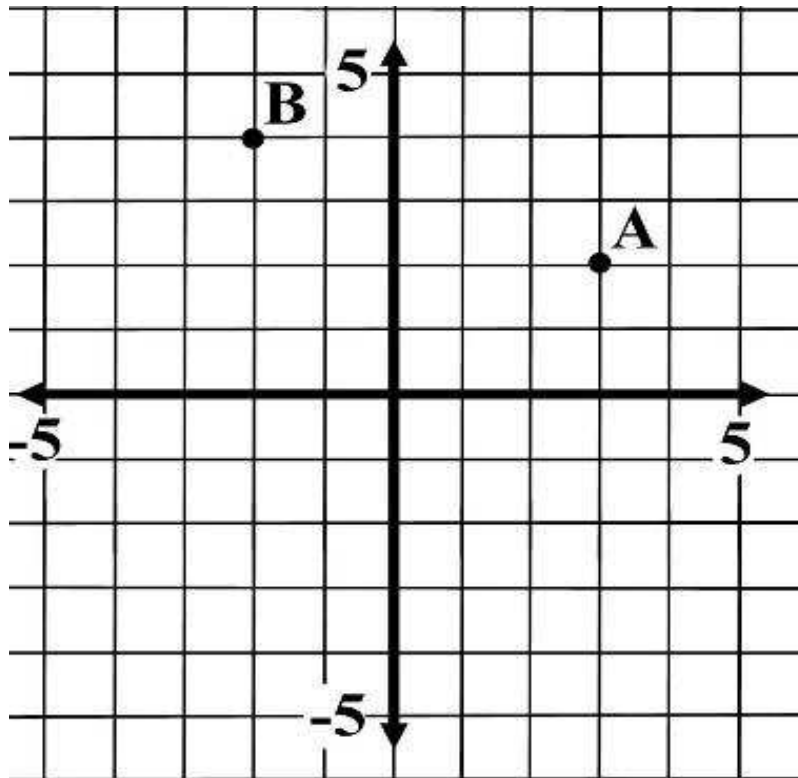


Int 1 Unit 2 Specimen NAB

- 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 (-2,-1) 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 2, -7 and -2

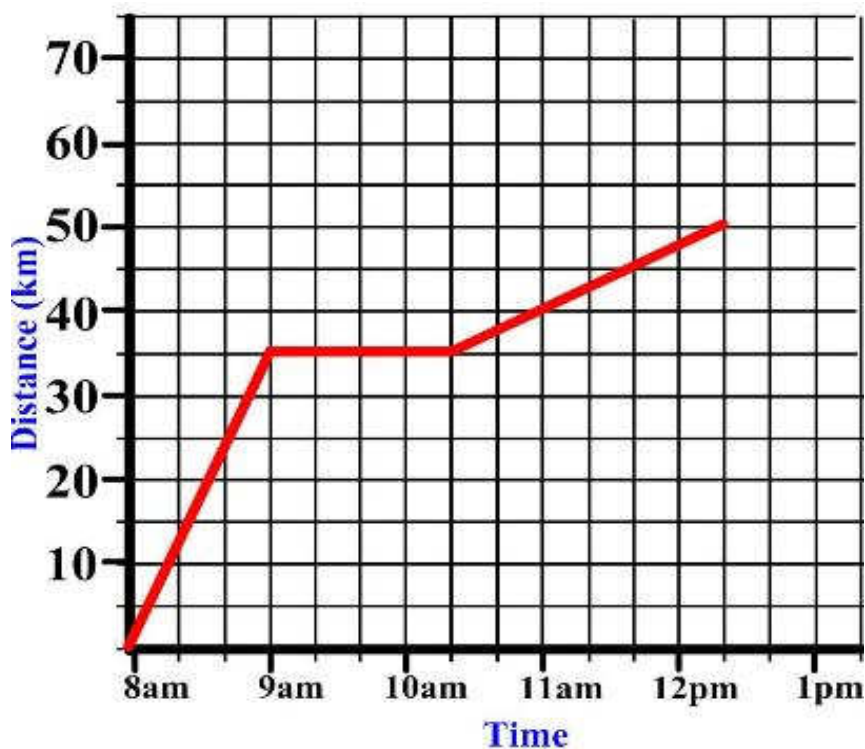
Winson scored -2, -7 and -5

Megan scored -7, -5 and -8

- a) What was the total scored by Winson?
- b) What was the total scored by Megan?
- c) A 4th pupil, Angela, scored a total of 4. By how much did Angela beat Tom?

- a) -14
b) -14
c) -7

- 3) The graph shows Brandon'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 Brandon's Journey had the greater average speed?



- a) 35 km
- b) 1 hr 20 min
- c) steepness of line

- 4) A coach travels at a speed of 69 mile per hour for 10 hours.

Find the distance travelled by the coach.

690 miles

- 5) A plane files for 105 kilometres at a speed of 70 kilometres per hour.

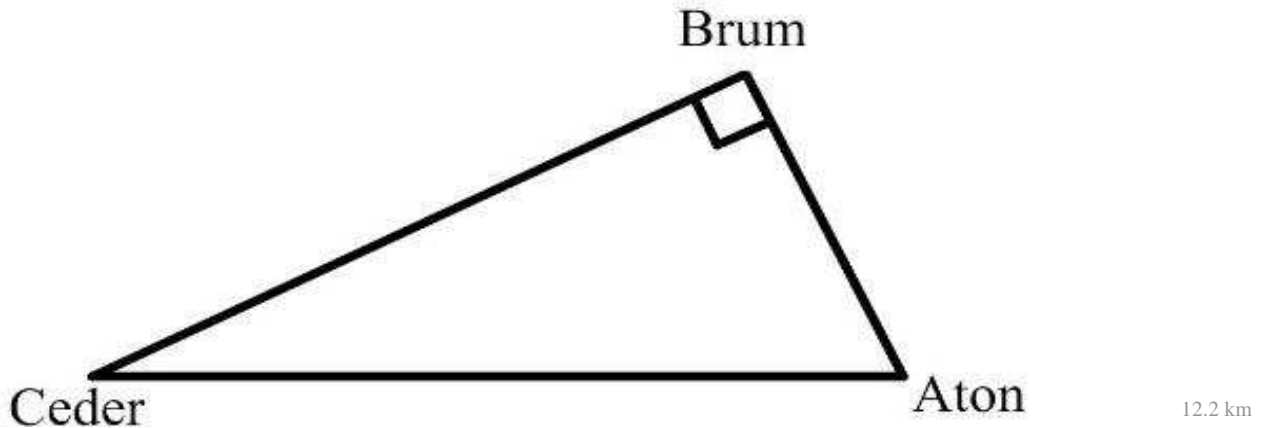
How long does the flight take?

1 hr 30 mins

6) The diagram shows the position of 3 towns

The distance from Ceder to Brum is 10 km and the distance from Brum to Aton is 7 km.

Calculate the distance from Ceder to Aton.



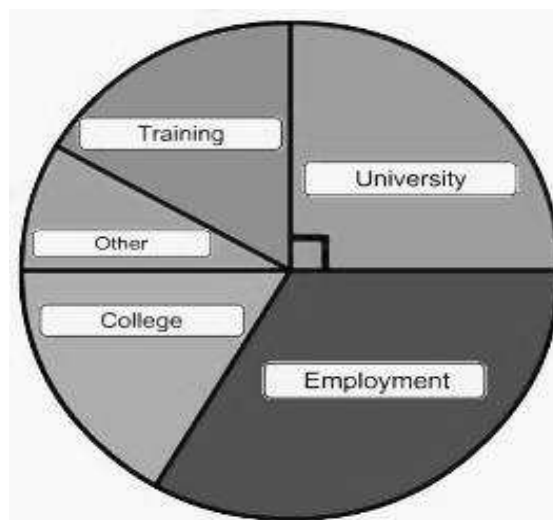
7) 18 calves were fed a special diet for 3 months. The weight gained in kilograms for each animal was recorded.

50, 10, 42, 50, 4, 28, 33, 6, 50, 13, 42, 47, 4, 41, 22, 20, 8, 2, 32, 10

- 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, 276 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.

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



- 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 | 12 | 41 | 38 | 20 | 37 | 19 | 22 | 38 | 32 | 29 |

2nd Judge | 57 | 22 | 34 | 73 | 23 | 80 | 64 | 20 | 47 | 58 |

- 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.
- 17, 20, 1, 11, 16, 18, 10, 18, 15, 3, 9, 10, 2, 3, 2, 9
- a) Calculate the mean score.
- b) Calculate the median score.
- c) Calculate the modal score.
- d) Calculate the range

- 12) A spinner has 11 edges with different numbers between 1 and 11. When it is spun, it comes to rest pointing to one number.

What is the probability it comes to rest pointing to a 9?