7 There are 480 people in an airport departure lounge.

30% of these people are catching a plane to Dubai.

(a) Show that 336 of these people are **not** catching a plane to Dubai.

(2)

The people in the airport lounge who are not catching a plane to Dubai are catching a plane to Sweden or a plane to Greece or a plane to Brazil.

Of these 336 people

the number catching a plane to Sweden is s
the number catching a plane to Greece is g
the number catching a plane to Brazil is b where

$$s : g : b = 6 : 7 : 8$$

(b) Calculate the value of s

(3)

Pablo went by plane from Canada to Brazil in February 2020 and in February 2021

In February 2020, the cost of his ticket was $680
In February 2021, the cost of his ticket was $730

(c) Calculate the percentage increase, to one decimal place, in the cost of the ticket from February 2020 to February 2021

(2)

Pablo bought a ticket to go by plane to Sweden in June 2021
The cost of his ticket was $468

The cost of this ticket was 4% greater than the cost of his ticket the last time he went by plane to Sweden, which was in December 2020

(d) Calculate the cost of Pablo's ticket to Sweden in December 2020

(2)

At the end of his trip, Pablo had 320 Swedish krona left.
He changed the 320 Swedish krona into Canadian dollars.

Using the following exchange rates,

1 Canadian dollar = 0.57 euros   1 Swedish krona = 0.094 euros

(e) calculate the number, to 2 decimal places, of Canadian dollars that Pablo should have received.

(3)

Question 7 continued

P 6 8 8 1 9 A 0 2 1 3 6

Question 7 continued

Question 7 continued

(Total for Question 7 is 12 marks)

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