

IGCSE - Inequalities -P2 - 4

Oct 03 Paper 2

- 21 Marina goes to the shop to buy loaves of bread and cakes.
One loaf of bread costs 60 cents and one cake costs 80 cents.
She buys x loaves of bread and y cakes.

- (a) She must not spend more than \$12.
Show that $3x + 4y \leq 60$.

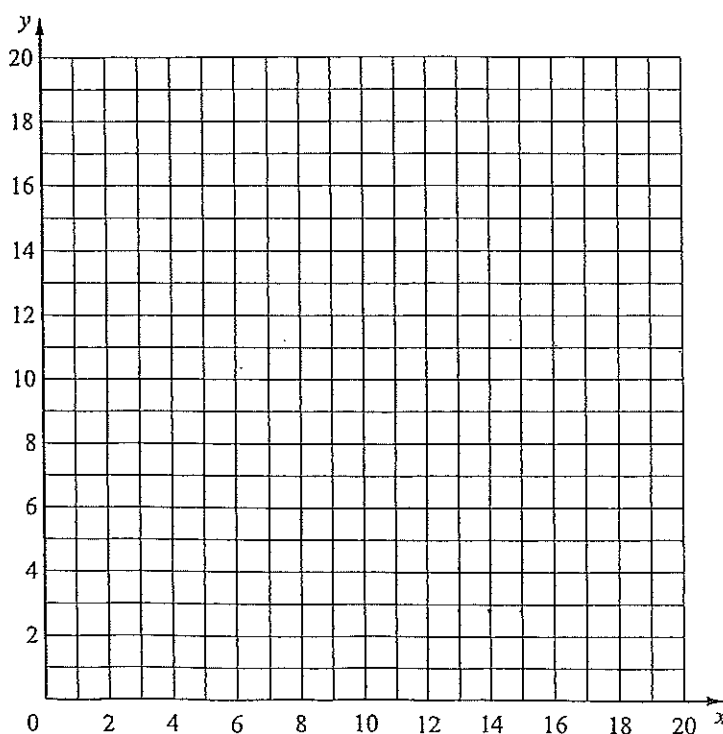
Answer (a)

[1]

- (b) The number of loaves of bread must be greater than or equal to the number of cakes.
Write down an inequality in x and y to show this information.

Answer (b)..... [1]

- (c) On the grid below show the two inequalities by shading the unwanted regions.
Write R in the required region.



[4]

- (d) The total number of loaves of bread and cakes is $x + y$.
Find the largest possible value of $x + y$.

Answer (d) [1]