

National 5 Maths
QS 2026 Paper 2
Question 4

For a hobby, Alex makes cups and plates.

To make 5 cups and 6 plates, it takes Alex 45 minutes.

Let c be the number of minutes Alex takes to make a cup and p be the number of minutes Alex takes to make a plate.

(a) Write down an equation in c and p to illustrate this information. 1

To make 7 cups and 4 plates, it takes Alex 52 minutes.

(b) Write down an equation in c and p to illustrate this information. 1

(c) Calculate, algebraically, the **total** number of minutes it will take Alex to make 10 cups and 8 plates. 4

Answers:

(a) $5c + 6p = 45$

(b) $7c + 4p = 52$

(c) $c = 6$ and $p = 2.5$, so 10 cups and 8 plates will take 80 minutes.