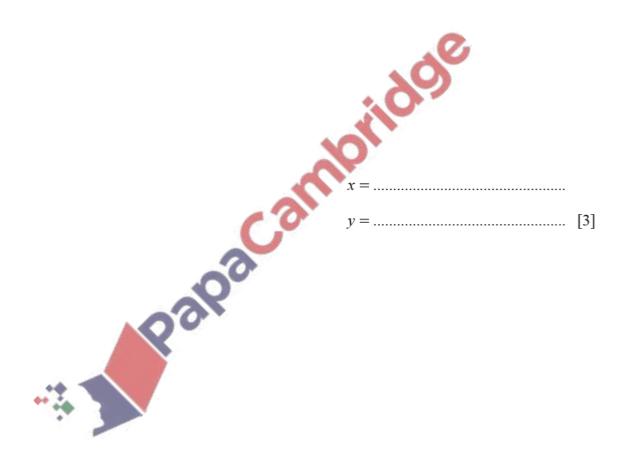
Solutions of equations and inequalities – 2021 O Level Math D

1. Nov/2021/Paper_11/No.12

Solve the simultaneous equations. Show all your working.

$$2x - y = 12$$

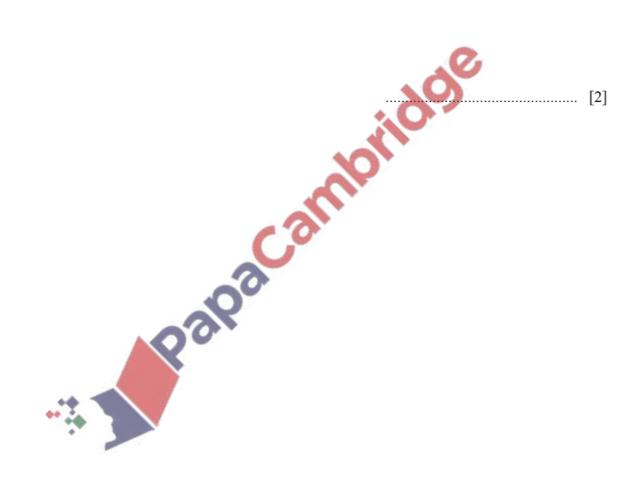
$$7x + 3y = 29$$



2. Nov/2021/Paper_12/No.16

Solve the inequality.

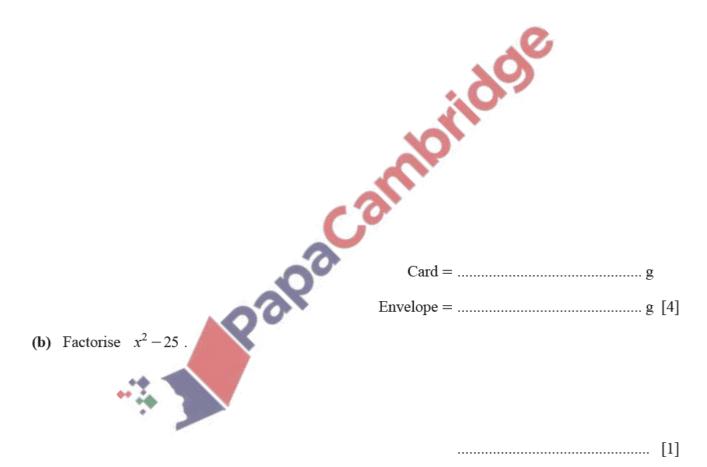
$$23 + 2n > 5 - 6n$$



3. Nov/2021/Paper_22/No.5

(a) The mass of 4 cards and 3 envelopes is 85 g. The mass of 2 cards and 5 envelopes is 67 g.

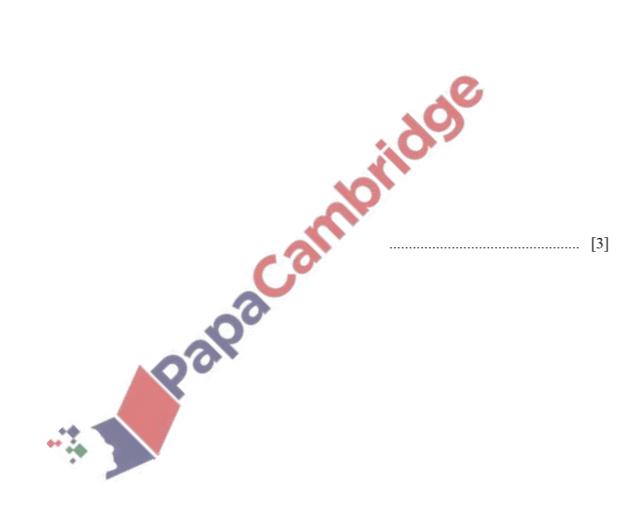
Form a pair of simultaneous equations and solve them to find the mass of one card and the mass of one envelope.



(c) Rearrange the formula $r = \frac{2t}{t-5}$ to make t the subject.

(d) Express as a single fraction in its simplest form.

$$\frac{4}{x-5} - \frac{3}{2x+1}$$



4. June/2021/Paper_11/No.9

Insert the correct symbol =, > or < to make each statement correct.

(a) 0.6kg 60g

(b) 15 km 15 000 m [1]

(c) $4 \,\mathrm{m}^2$ $400 \,\mathrm{cm}^2$ [1]

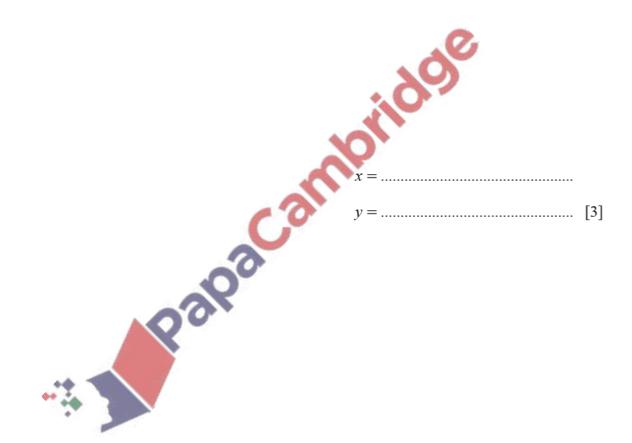


5. June/2021/Paper_11/No.18

Solve the simultaneous equations. Show your working.

$$x + 6y = 0$$

$$3x - 2y = 10$$



6. June/2021/Paper_12/No.11

Solve the simultaneous equations. Show your working.

$$5x + 2y = 7$$
$$2x - 3y = 18$$

