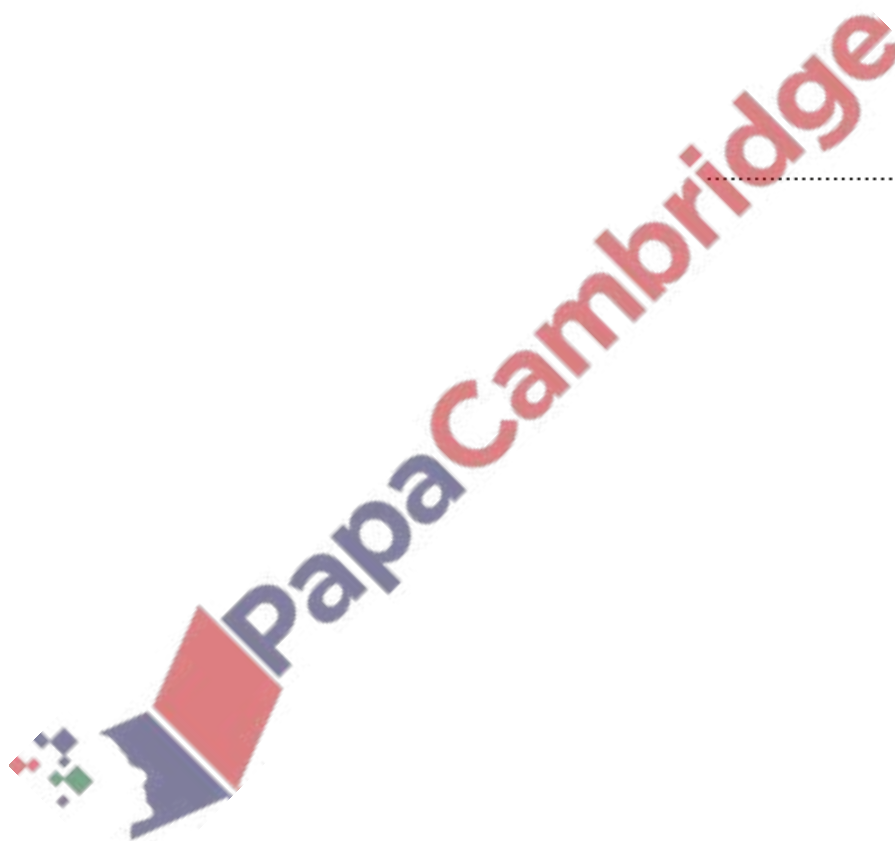**1.** Nov/2021/Paper_11/No.10

A triangle has one angle of 55°.
The other two angles in the triangle are in the ratio 3 : 2 .

Calculate the size of the smallest angle in the triangle.

.... [3]

(b) The table shows the rates that Sara is charged for her gas and electricity supply.
She is charged a fixed amount each day plus an amount for each unit used.

	Cost for one day	Cost for one unit
Gas	23 cents	4.3 cents
Electricity	28 cents	16 cents

(i) Sara uses a total of 960 units of gas in the 30 days of November.

Calculate the total amount, in dollars, Sara is charged for gas in November.

$ .... [2]

(ii) Sara is charged a total of $30.80 for electricity in the 30 days of November.

Calculate the number of units of electricity she used.

.... units [3]

3.
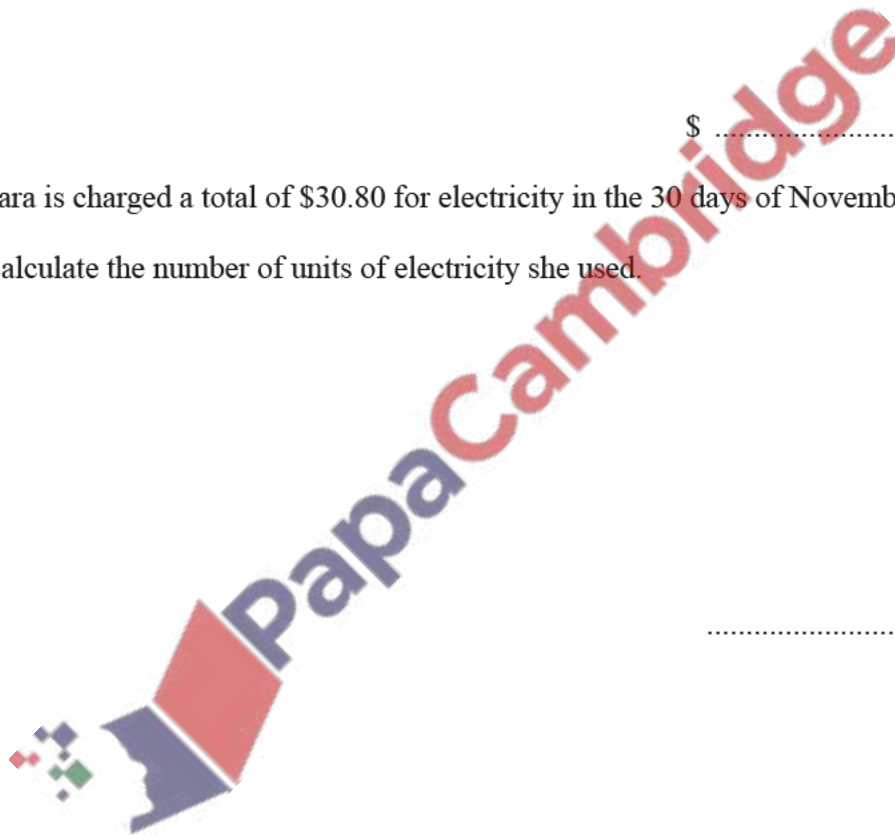
(b) Jasmine changes $350 into rupees.
The exchange rate is $1 = 71.6$ rupees.

On holiday, she spends 19 500 rupees.
She changes the rest back to dollars at the same exchange rate.

Calculate the amount of money she receives.
Give your answer correct to the nearest cent.

$ .... [3]

4.

Two numbers x and y are such that
- $x : y = 5 : 11$
and
- $x + y = 112.$

Find x and y.

$x = $ ....

$y = $ .... [2]

5.

    (a) Omar and Jamil share \$540 in the ratio 7 : 2.

          Work out Omar's share.

                                                \$ .... [2]

    (b) Increase 40 in the ratio 5 : 8.

                                                   .... [1]