

3 A mail-order company buys dresses from America and France to sell in the UK.

The company uses the following algorithm to convert sizes before printing them in its catalogue. Half sizes are not possible (e.g. size 12.5).

```
INPUT Size
INPUT Origin
IF Origin = "America" THEN
    Size = Size + 2
ELSE
    IF Origin = "France" THEN
        Size = Size - 26
    END IF
END IF
PRINT Size
```

(a) The code uses the variables Origin and Size.

(i) Describe what is meant by a variable.

.....
.....
.....
..... [2]

(ii) State the most appropriate data type for the variables Origin and Size, giving a reason for your choice.

Origin

Data type

Reason

.....

Size

Data type

Reason

..... [4]

(b) The company sells the following dresses.

Dress A	Dress B	Dress C
Origin: France Size: 40	Origin: America Size: 8	Origin: UK Size: 12

State the size which will be printed in the catalogue using the algorithm given.

Dress A

Dress B

Dress C [3]