

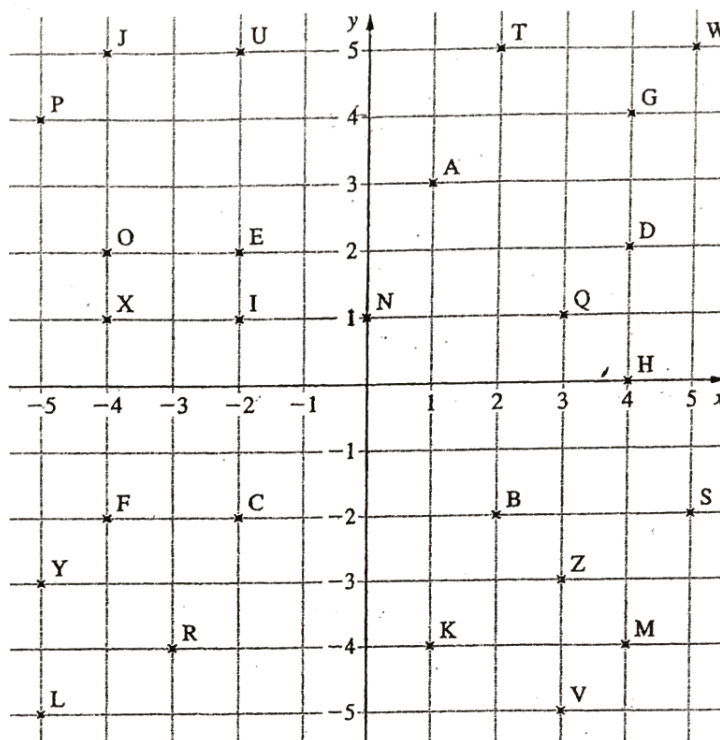
Negative coordinates

Exercise 5

The letters from A to Z are shown on the grid.

Coded messages can be sent using coordinates.

For example $(-5, -5) (-4, 2)$
 $(2, 5) (5, -2)$
 reads 'LOTS'.



Decode the following messages:

- $(5, 5) (4, 0) (1, 3) (2, 5) \square (4, 2) (-4, 2) \square (-5, -3)$
 $(-4, 2) (-2, 5) \square (-2, -2) (1, 3) (-5, -5) (-5, -5) \square$
 $(1, 3) \square (5, 5) (-4, 2) (4, -4) (1, 3) (0, 1) \square (-2, 1) (0, 1) \square$
 $(1, 3) \square (2, -2) (-4, 2) (-4, 2) (1, -4) (4, -4) (1, 3)$
 $(1, -4) (-2, 2) (-3, -4) (5, -2) ? \square (2, -2) (-2, 2) (2, 5) !$
- Change the sixth word to: $(4, -4) (1, 3) (0, 1) \square$
 Change the seventh word to: $(-2, 5) (0, 1) (4, 2) (-2, 2)$
 $(-3, -4) \square$
 then $(1, 3) \square (-2, -2) (1, 3) (-3, -4) ? \square (-4, 5) (1, 3)$
 $(-2, -2) (1, -4) !$
- $(5, 5) (4, 0) (1, 3) (2, 5) \square (4, 2) (-4, 2) \square (-5, -3)$
 $(-4, 2) (-2, 5) \square (-2, -2) (1, 3) (-5, -5) (-5, -5) \#$
 $(1, 3) \square (4, 2) (-2, 2) (1, 3) (4, 2) \square (-5, 4) (1, 3) (-3, -4)$
 $(-3, -4) (-4, 2) (2, 5) ? \square (-5, 4) (-4, 2) (-5, -5) (-5, -3)$
 $(4, 4) (-4, 2) (0, 1) !$
- $(5, 5) (-2, 1) (2, 5) (4, 0) \square (5, 5) (4, 0) (1, 3) (2, 5) \square$
 $(4, 2) (-4, 2) \square (-5, -3) (-4, 2) (-2, 5) \square (5, -2) (2, 5)$
 $(-2, 5) (-4, -2) (-4, -2) \square (1, 3) \square (4, 2) (-2, 2) (1, 3)$
 $(4, 2) \square (-5, 4) (1, 3) (-3, -4) (-3, -4) (-4, 2)$
 $(2, 5) ? \square (-5, 4) (-4, 2) (-5, -5) (-5, -3) (-4, -2) (-2, 1)$
 $(-5, -5) (-5, -5) (1, 3) !$
- $(5, 5) (4, 0) (1, 3) (2, 5) \square (4, 2) (-4, 2) \square (3, -5) (-2, 2)$
 $(4, 4) (-2, 2) (2, 5) (1, 3) (-3, -4) (-2, 1) (1, 3) (0, 1) \square$
 $(4, -4) (-4, 2) (0, 1) (5, -2) (2, 5) (-2, 2) (-3, -4)$
 $(5, -2) \square (-2, 2) (1, 3) (2, 5) ? (5, -2) (5, 5) (-2, 2) (4, 2)$
 $(-2, 2) (5, -2).$