

Math book

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Translations

A firefighter slides down a pole.



A flag slides up a pole.

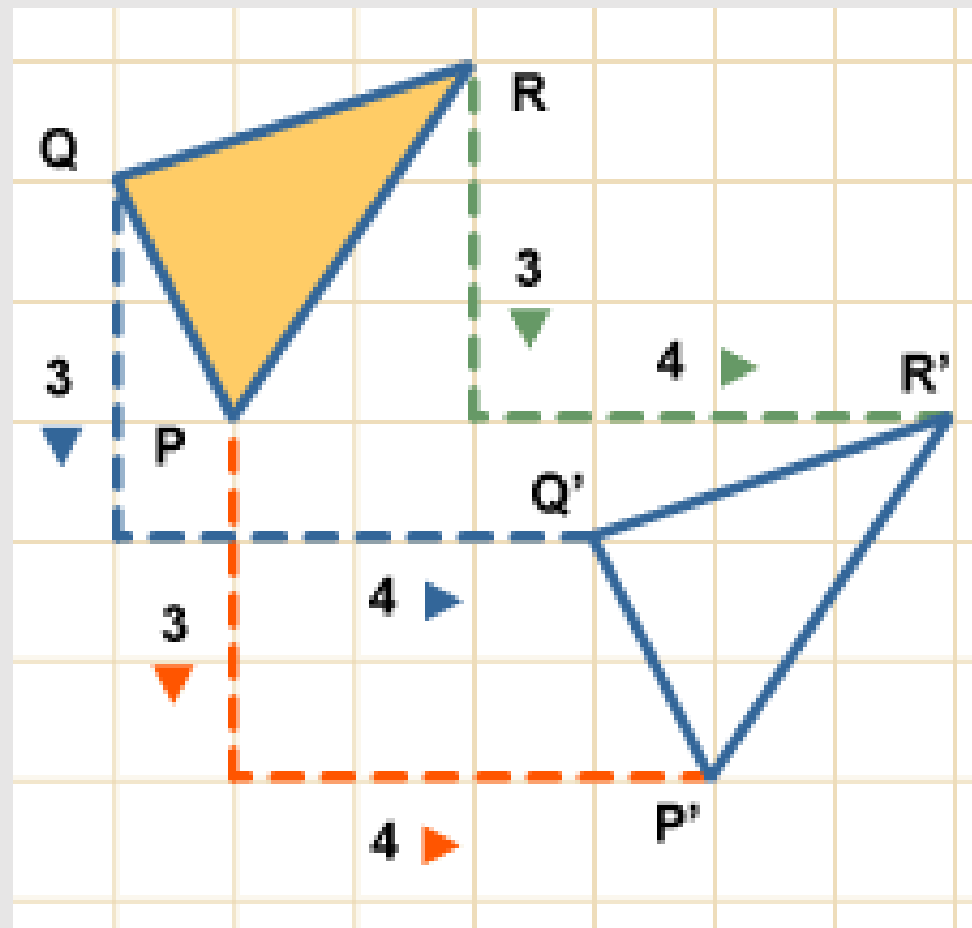


A child slides down a playground slide.

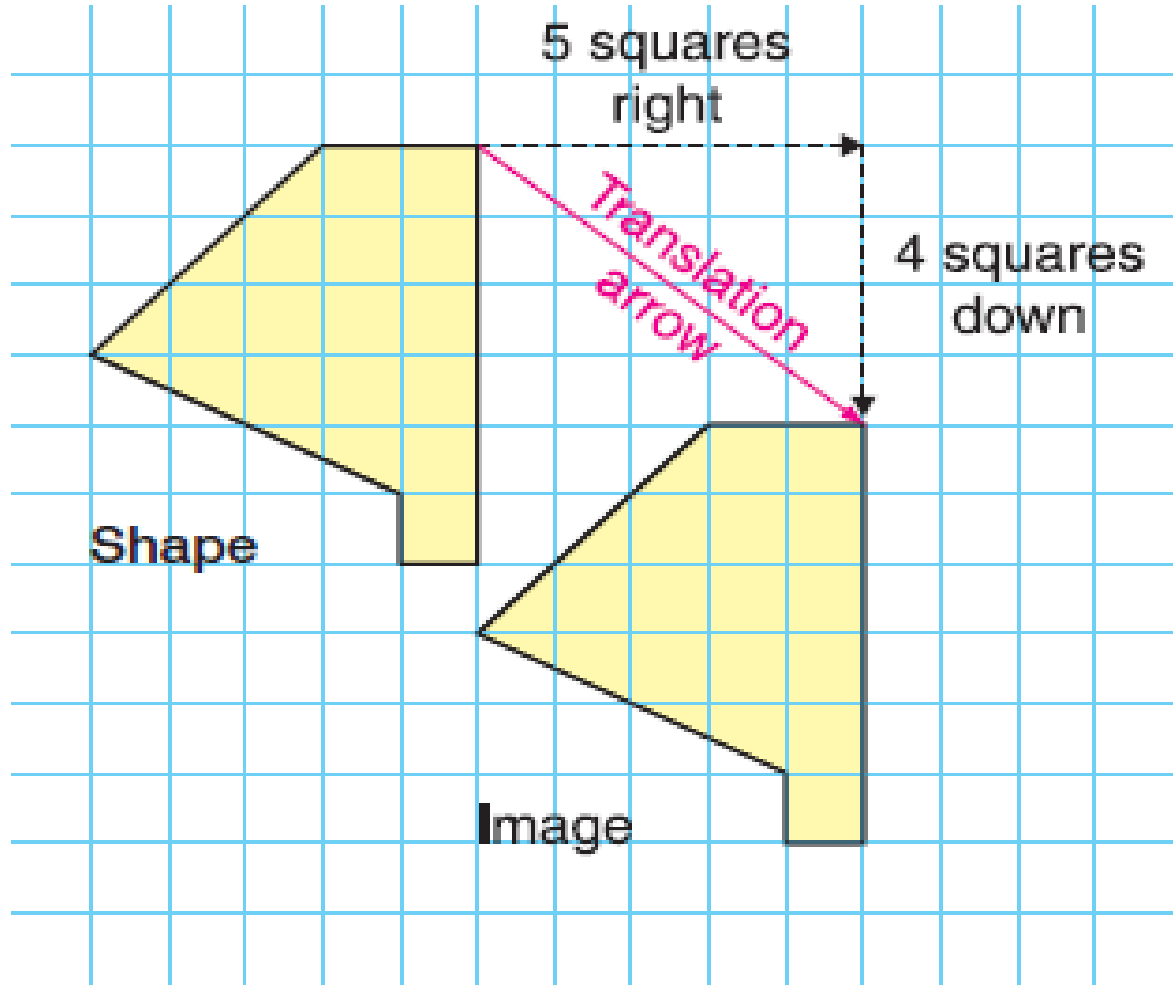


Which other ways do people or objects slide?

When a shape moves along a straight line, without turning, it is *translated* from one position to another. The movement is a **translation** or a *slide*.



The translation below is:
5 squares right and 4 squares down.

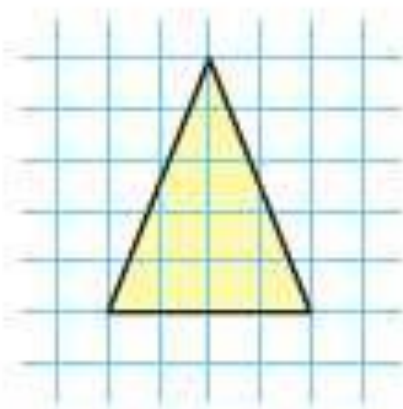


We say how many squares right or left before we say how many up or down.

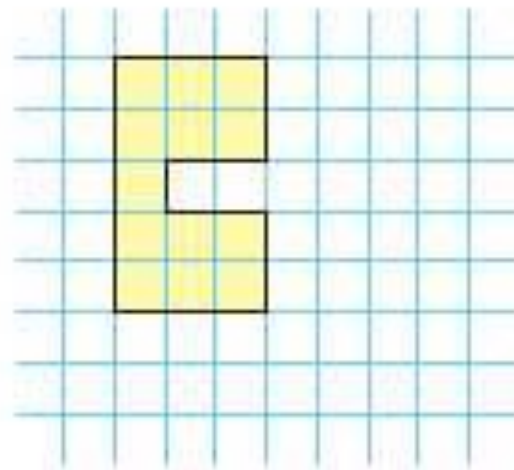


Copy each shape on grid paper. Use tracing paper.
Translate the shape using the given translation.
Draw the image and a translation arrow.
Describe the position and orientation of the image.

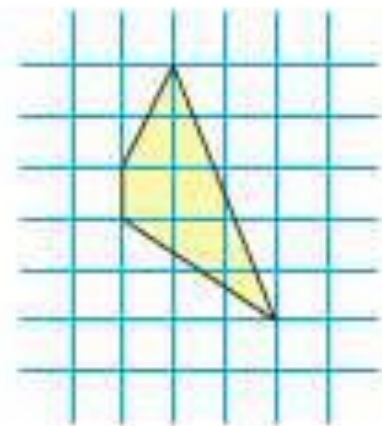
a) 7 squares left and
3 squares up



b) 5 squares right
and 4 squares down

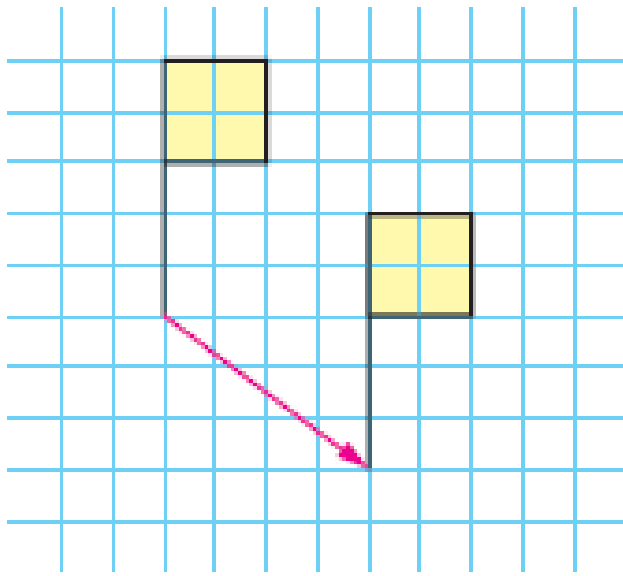


c) 3 squares left and
6 squares down

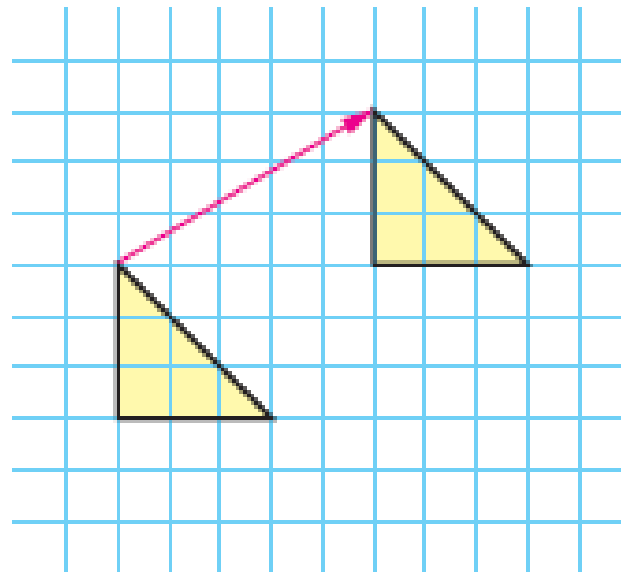


Write the translation that moved each shape to its image.

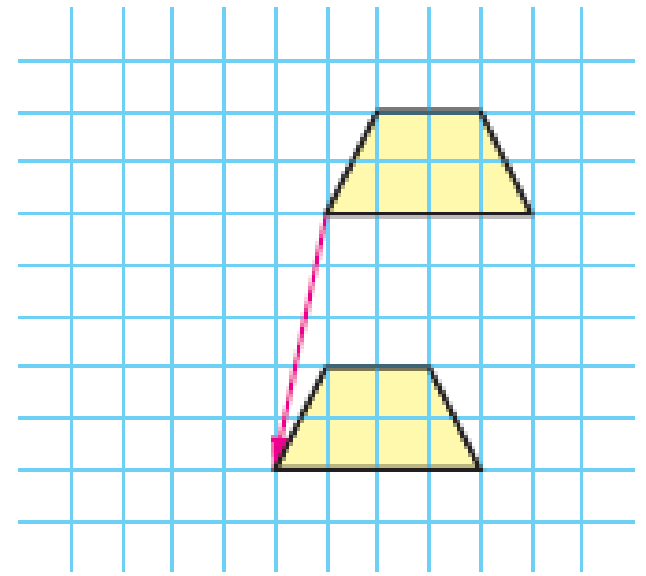
a)



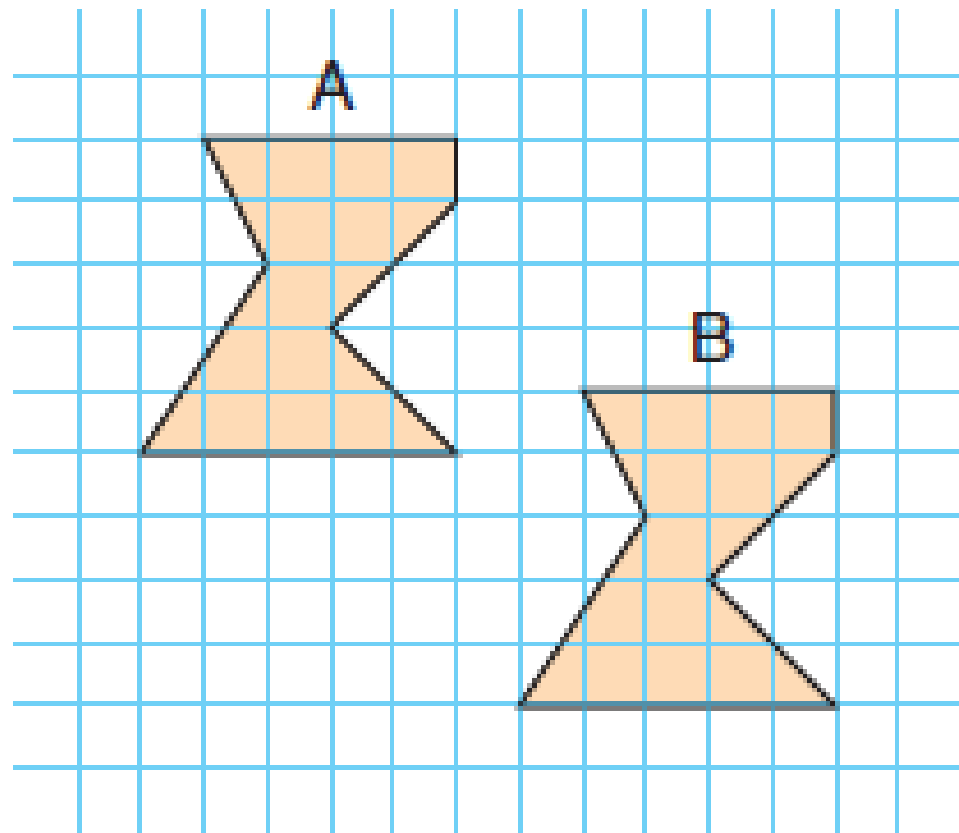
b)



c)



Copy these shapes on grid paper.



- Describe which translation moves Shape A to Shape B.
- Describe which translation moves Shape B to Shape A.