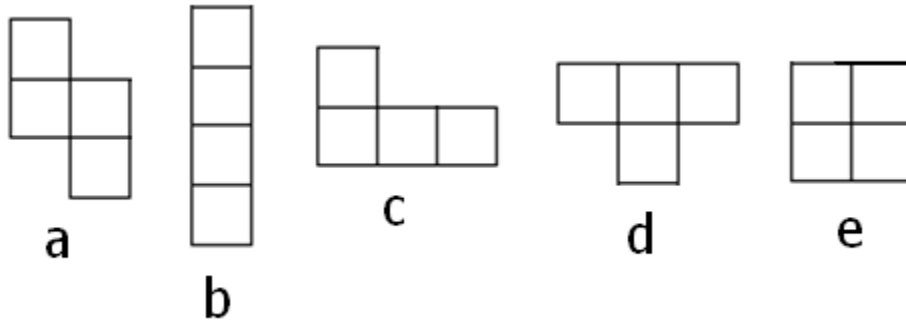


There are five different quadrominoes
(ways to stick five squares together so that sides match.)



Can we create a set of four questions
where no quadromino has the same answers as another?

The following questions will accomplish this successfully;

1. Does it have rotational symmetry?
2. Does it have reflection symmetry?
3. Is the perimeter equal to 8?

	1	2	3
A	yes	no	no
B	yes	yes	no
C	no	no	no
D	no	yes	no
E	yes	yes	yes

There are twelve possible pentominoes (see Sheet 3:1.)

Can we create a set of six questions
where no pentomino has the same answers as another? [20 marks]

Try this on Sheet 3:2.

You are allowed to use some of the questions above if you wish.

If you use less than six questions, you get bonus marks!