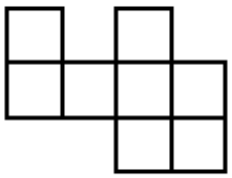
8. The diagram shows eight small squares. Six of these squares are to be shaded so that the shaded squares form the net of a cube.
In how many different ways can this be done?



A 10 B 8 C 7 D 6 E 4

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8. **D** Let the squares in the diagram be labelled as shown. Each of the nets formed from six squares must contain all of R, S and T. The net must also include one of P and Q (but not both as they will fold into the same position), and any two of U, V and W. This therefore gives $2 \times 3 = 6$ different ways.