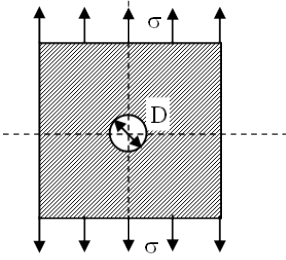
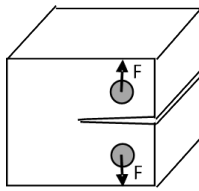
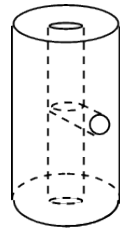
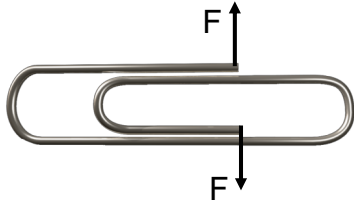


## Exercise Sheet (FE)-2 (Choosing elements)

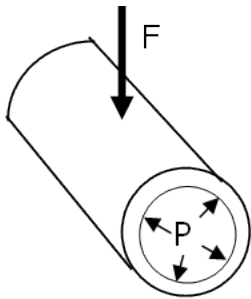
Which elements would you recommend for the examples shown below? Note that more than one type of element may be suitable.

Example	Element Type	Reason
<p><b>1.</b> A thin square plate with a central circular hole subjected to a uniaxial stress.</p> 		
<p><b>2.</b> A standard fracture test specimen (called compact tension specimen) used to determine the fracture toughness of materials. Loading is applied to open the crack using pins inserted in circular holes.</p> 		
<p><b>3.</b> A thick-walled pressurised pipe containing a pressurised fluid.</p> 		

**4.** A paper clip loaded by two forces as shown.



**5.** A thin-walled gas pipe subjected to a concentrated point force.



**6.** Two steel cylindrical rollers pressed on a flat block.

