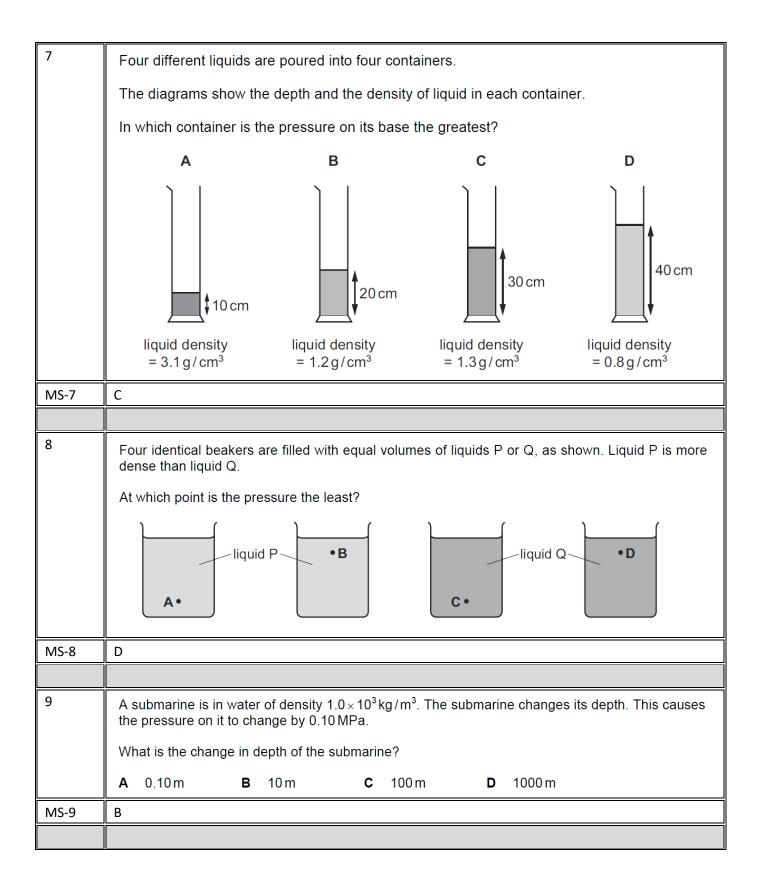


3 A block with flat, rectangular sides rests on a table. block table The block is now turned so that it rests with its largest side on the table. How has this change affected the force and the pressure exerted by the block on the table? force pressure Α decreased decreased В decreased unchanged C unchanged decreased D unchanged unchanged MS-3 C 4 The diagram shows a stone suspended under the surface of a liquid from a string. The stone experiences a pressure caused by the liquid. string stone liquid -What would increase the pressure on the stone? decreasing the surface area of the stone В increasing the mass of the stone C lowering the stone deeper into the liquid D using a liquid with a lower density MS-4 С

5 The diagram shows a solid block resting on a bench. The dimensions of the block are shown. 40 cm 20 cm R bench 80 cm On which labelled surface should the block rest to produce the smallest pressure on the bench? В Q C R any of P, Q or R D MS-5 Α 6 A diver under water uses breathing apparatus at a depth where the pressure is $1.25 \times 10^5 \, \text{Pa}$. A bubble of gas breathed out by the diver has a volume of 20 cm³ when it is released. The bubble moves upwards to the surface of the water. At the surface of the water, the atmospheric pressure is $1.00 \times 10^5 \, \text{Pa}$. The temperature of the water is the same at all depths. What is the volume of this bubble when it reaches the surface? 16 cm³ 15 cm³ 20 cm³ $25\,\mathrm{cm}^3$ В MS-6 D



10				
10	Which diagram shows the child exerting least pressure on the ground?			
	Α	В	С	D
MS-10	В			
11	A pin is squeezed between finger and thumb.			
	B The force of the pin	is larger on the finger than is larger on the thumb than	on the finge	r.
	C The pressure of the pin is larger on the finger than on the thumb.D The pressure of the pin is larger on the thumb than on the finger.			
	-	pin is larger on the thumb		nger.
MS-11	D			