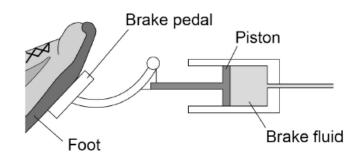
AQA - Pressure and pressure difference in fluids – GCSE Physics

1. June/2021/Paper_2F/No.8(8.5_8.6)

Figure 19 shows part of the braking system for a car.

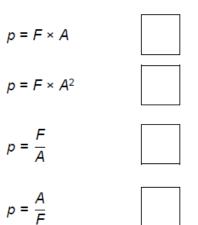
Figure 19





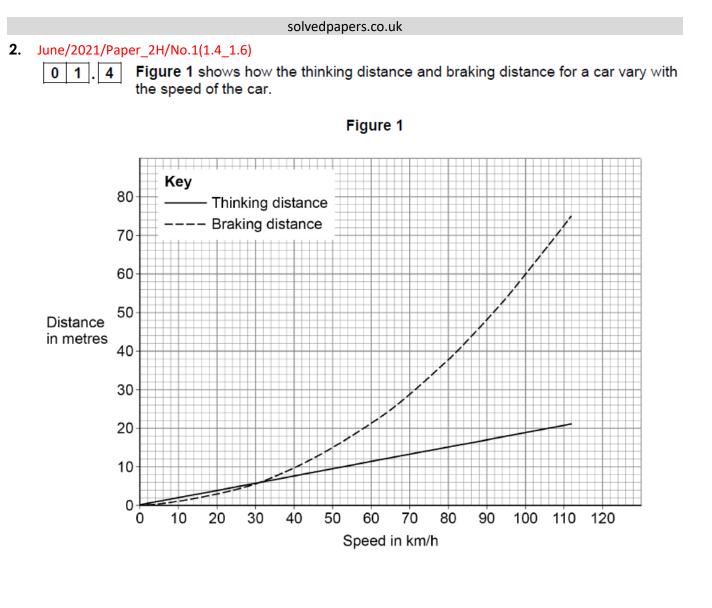
Which equation links area of a surface (A), the force normal to that surface (F) and pressure (p)?

Tick (✓) one box.



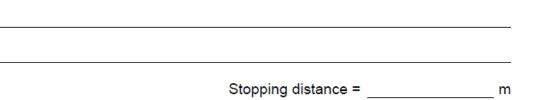
[1 mark]

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08.6	When the brake pedal is pressed, a force of 60 N is applied to the piston.	
	The pressure in the brake fluid is 120 000 Pa.	
	Calculate the surface area of the piston.	
	Give your answer in standard form.	
	Give the unit.	[5 marks]
	Surface area (in standard form) = Unit	



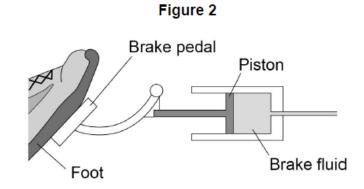
Determine the stopping distance when the car is travelling at 80 km/h.

[2 marks]



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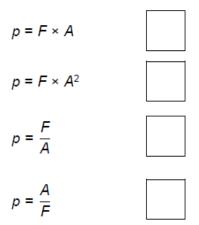
Figure 2 shows part of the braking system for a car.





Which equation links area of a surface (*A*), the force normal to that surface (*F*) and pressure (*p*). [1 mark]

Tick (✓) one box.



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0 1.6	When the brake pedal is pressed, a force of 60 N is applied to the pisto	n.
	The pressure in the brake fluid is 120 000 Pa.	
	Calculate the surface area of the piston.	
	Give your answer in standard form.	
	Give the unit.	[5 marks]
	Surface area (in standard form) = Unit	