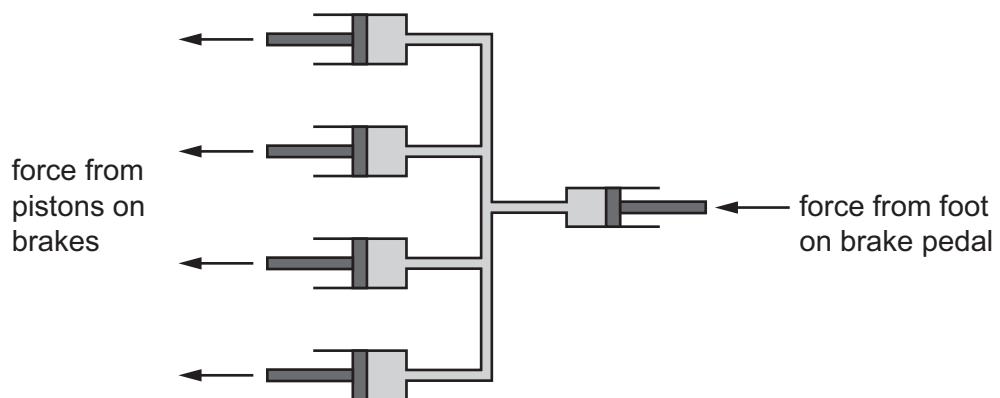


16 The diagram shows the brake system of a car.



The pipes are filled with incompressible liquid. When a force is applied to the brake pedal, the pressure in the liquid increases and applies a force to each of the four wheels.

The area of the piston connected to the brake pedal is 8 cm^2 .

The area of each piston connected to the brakes is 12 cm^2 .

A force of 800 N is applied by the foot to the brake pedal.

What is the force applied to each brake?

- A** 300 N
- B** 530 N
- C** 1200 N
- D** 4800 N