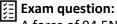
## Pressure = Force/Area Name: maths-school.co.uk Clearly state the units of your answers Calculate the pressure on an object when: a) A force of 24N is applied to a 4m<sup>2</sup> area d) A force of 12N is applied to a 0.4m<sup>2</sup> area b) A force of 65N is applied to a 5m<sup>2</sup> area e) A force of 36N is applied to a 0.3m<sup>2</sup> area c) A force of 105N is applied to a 14m² area f) A force of 5.4N is applied to a 270cm<sup>2</sup> area Calculate the force (N) placed on an object if: g) An area of 12m<sup>2</sup> is under a pressure of 6 Pa j) An area of 0.4m<sup>2</sup> is under a pressure of 30 Pa h) An area of 50m<sup>2</sup> is under a pressure of 12 Pa k) An area of 2.3m<sup>2</sup> is under a pressure of 28 Pa ..... I) An area of 500cm<sup>2</sup> is under a pressure of 40 Pa i) An area of 6m<sup>2</sup> is under a pressure of 14 Pa Calculate the area, in m<sup>2</sup>, if: m) A force of 30N is under 5 Pa of pressure p) A force of 70N is under 1.4 Pa of pressure q) A force of 516N is under 4 Pa of pressure n) A force of 36N is under 9 Pa of pressure o) A force of 180N is under 12 Pa of pressure r) A force of 84N is under 0.25 Pa of pressure



A force of 94.5N is exerted by a cube which has a side length of 3m. Calculate the pressure exerted by the cube.

