

Calculating Pressure 2

Only type in the NUMBERS please. No units.

A. Calculate the PRESSURE of the following:

a. Force = 320N and Area = 8m²

$P = \frac{F}{A}$	$P = \frac{320}{8}$	= 40 Pa
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b. Force = 810N and Area = 9m²

$\square = \frac{\square}{\square}$	$\square = \frac{\square}{\square}$	= $\square$ Pa
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c. Area= 7m² and Force = 700N

$\square = \frac{\square}{\square}$	$\square = \frac{\square}{\square}$	= $\square$ Pa
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d. Area= 80m² and Force = 6400N

$\square = \frac{\square}{\square}$	$\square = \frac{\square}{\square}$	$= \square \text{ Pa}$
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B. Calculate the FORCE of the following.

a. Pressure = 90Pa and Area= 9m²

$F = P \times A$	$\square = \square \times \square$	$= \square \text{ N}$
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b. Pressure = 82Pa and Area= 20m²

$F = P \times A$	$\square = \square \times \square$	$= \square \text{ N}$
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c. Area= 6m² and Pressure = 57Pa

$F = P \times A$	$\square = \square \times \square$	$= \square \text{ N}$
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d. Area= 8m² and Pressure = 640 Pa

$F = P \times A$	$\square = \square \times \square$	$= \square \text{ N}$
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C. Calculate the AREA of the following.

a. Force = 280N and Pressure = 7Pa

$A = \frac{F}{P}$	$\square = \frac{\square}{\square}$	$= \square \text{ m}^2$
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b. Pressure = 6Pa and Force = 540N

$\square = \frac{\square}{\square}$	$\square = \frac{\square}{\square}$	$= \square \text{ m}^2$
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c. Force = 6300N and Pressure = 7Pa

$\square = \frac{\square}{\square}$	$\square = \frac{\square}{\square}$	$= \square \text{ m}^2$
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d. Pressure = 480Pa and Force = 24N

$\square = \frac{\square}{\square}$	$\square = \frac{\square}{\square}$	$= \square \text{ m}^2$
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