

- 1 Decimal sub-multiples and multiples of units are indicated using a prefix to the unit. For example, the prefix milli (m) represents  $10^{-3}$ .

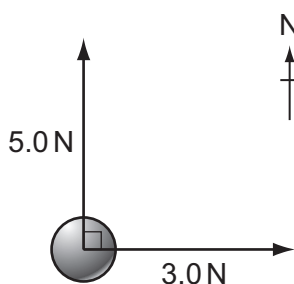
Which row gives the sub-multiples or multiples represented by pico (p) and giga (G)?

	pico (p)	giga (G)
<b>A</b>	$10^{-9}$	$10^9$
<b>B</b>	$10^{-9}$	$10^{12}$
<b>C</b>	$10^{-12}$	$10^9$
<b>D</b>	$10^{-12}$	$10^{12}$

- 2 Which definition is correct and uses only quantities rather than units?

- A** Density is mass per cubic metre.
- B** Potential difference is energy per unit current.
- C** Pressure is force per unit area.
- D** Speed is distance travelled per second.

- 3 A force of 5.0 N pushes a ball due north and another force of 3.0 N pushes it due east.



What is the magnitude of the net force acting on the ball?

- A** 2.8 N      **B** 4.0 N      **C** 5.8 N      **D** 8.0 N

**Space for working**