AGRUPAMENTO DE ESCOLAS DO FUNDÃO

WORKSHEET

PHYSICS AND CHEMISTRY

**1. Complete the following sentences correctly:**

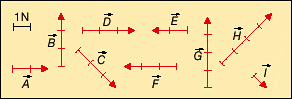
A - Any force can be represented by a \_\_\_\_\_\_\_\_\_\_\_\_\_\_. The length of the segment indicates the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the force and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ indicates the direction.

B - The SI unit of force intensity is \_\_\_\_\_\_\_\_ and symbolized by \_\_\_\_\_\_\_\_\_.

C – The apparatus that measures the strength of forces is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

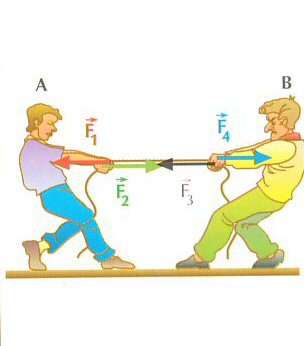
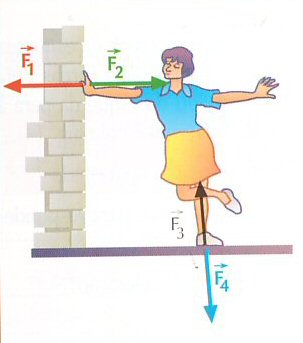
D - Two vertical forces have the same \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and two forces of 5N have the same \_\_\_\_\_\_\_\_\_.

1. **Consider the following vectors, which represent forces and complete the table.**



|  |  |  |
| --- | --- | --- |
| Force | Direction | Magnitude |
| A |  |  |
| B |  |  |
| C |  |  |
| D |  |  |
| E |  |  |
| F |  |  |
| G |  |  |
| H |  |  |
| I |  |  |

**1. Look closely at figures 1 and 2 and answer:**



A. The force exerted by the wall on the girl's hand

B. The force exerted on the ground by the girl's foot

C. The force exerted by the boy A on the cord.

D. The force exerted by the cord in the hand of the boy B

E. Two action-reaction pairs

1. **Two forces F ⃗ 1 and F ⃗ 2 of horizontal direction and opposite magnitude act on the same body.**

**The force F ⃗\_1 is directed to the right and has intensity 6N.**

**The force F ⃗\_2 is directed to the left and its intensity is 4N.**

1. Determine the resulting force:

b) Characterize the resulting force: