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Force Worksheet 2 Q1.

The figure below shows an object with a mass of 6 kg moves at constant velocity when it is pulled by a horizontal force of 4 N on a level surface. What is the acceleration of the object if the object is pulled with a force of 22 N?

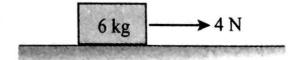


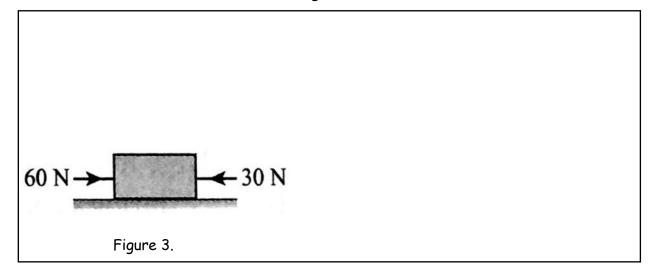
Figure 1.

Q2.

What is the acceleration of the object if the mass is also 6kg?



Figure 2.



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| Q3. | Consequence of black | | | | | | |
| The figure below shows three forces acting on a block. | | | | | | | |
| 41 | N → 5 N | | | | | | |
| H | | | | | | | |
| Figure 4. | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Q4.

The figure below shows forces $7\,N$, $4\,N$ and $10\,N$ acting on a point A. Calculate the magnitude of the resultant force acting on point A.

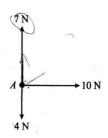
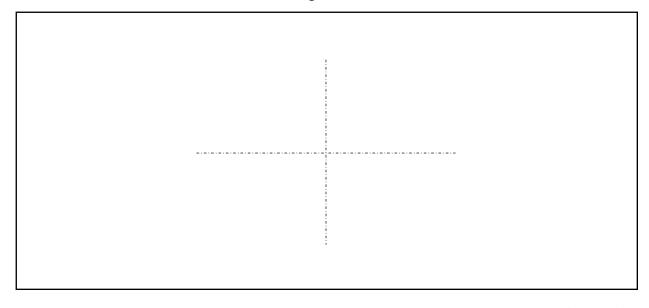


Figure 5.



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In the figure below, three forces F_1 , 30n and W are in equilibrium. What are the values for F_1 and W?

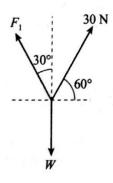


Figure 6

