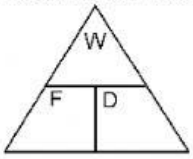
Calculations

31. The distance from the bottom of stair case to the top is 4 meters, your weight is 500N. How much work will you do getting to the top?

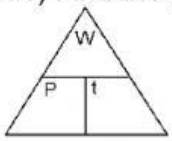


Answer **Unit**

N kg J W

number only no commas

32. When you run up the stairs it takes you 5 seconds. (These are the stairs from question 31) Find the power you used to run up the stairs.

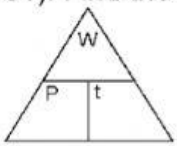


Answer **Unit**

N kg J W

number only no commas

33. When you walk up the stairs it takes you 20 seconds. (These are the stairs from question 31). Find the power you used to walk up the stairs.

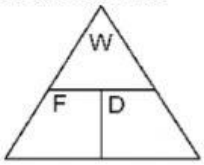


Answer **Unit**

N kg J W

number only no commas

34. If you exert a force of 20 newtons to push a desk 10 meters, how much work do you do on the desk?

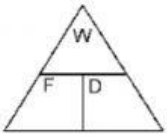


Answer **Unit**

N kg J W

number only no commas

35. You hold your 40 newton book bag in the hall for 5 minutes while you are waiting for class to start. How much work have you done?



Answer **Unit**

N kg J W

number only no commas