

Solving Physics

UNIT 10: Worksheet 3

Fig 2.10

For each of the problems below, carefully draw a free diagram of the system and write a calculation.

1. Determine the tension in each of the strings A and B in Fig 2.10

Case 1:



$F_A = 200g$
 $F_A = 200 \times 10 = 2000$
 $F_A = 2000$

Case 2:



$500g = 500 \times 10 = 5000$
 $F_B = 5000$
 $2F_B = 10000$
 $F_B = 5000$

2. Calculate the weight of each of the masses in Fig 2.11. State which way they will accelerate if any.



$F_A = 200g$
 $F_B = 300g$
 $F_B = 300 \times 10 = 3000$
 $2F_B = 6000$
 $F_B = 3000$



3. Two objects, hung from the ceiling as in Fig 2.12, are in equilibrium. Calculate the masses of the objects. (Take $g = 10 \text{ m/s}^2$)



$F_A = 200g$
 $F_B = 300g$
 $F_B = 300 \times 10 = 3000$
 $2F_B = 6000$
 $F_B = 3000$

4. Repeat the problem above, but this time the 200g mass has a weight of 2000N.

$F_A = 2000$
 $F_B = 300g$
 $F_B = 300 \times 10 = 3000$
 $2F_B = 6000$
 $F_B = 3000$

5. Calculate the tension in each of the strings in Fig 2.13.

$F_A = \frac{1000}{\sqrt{2}} = 707.10678$

END OF UNIT 10

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S Ashworth



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