



- 0019008853402 -

1 A load is suspended from a thread. The vertical force on the thread due to the load is 0.75 N.

(a) Calculate the mass of the load.

$$m = \frac{W}{g} = 0.75 / 9.8 = 0.0765 \approx 0.08 \text{ kg}$$

(b) Fig. 1.1 shows the load suspended from the thread.

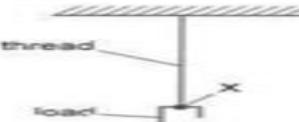


Fig. 1.1

A wire is attached to the load at point X and pulled horizontally to the right.

The tension in the horizontal wire is 1.2 N.

By drawing a scale diagram or by calculation, determine:

- the magnitude of the resultant of the force at X due to the load and due to the tension in the wire
- the direction of the resultant relative to the vertical direction.

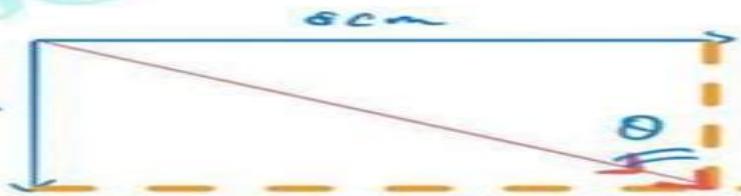
Show your working.

Scale 1 cm : 0.15 N

$$F = \sqrt{8^2 + 5^2} \times 0.15 \\ = 1.42 \text{ (N)}$$

$$\tan \theta = \frac{8}{5}$$

$$\theta =$$



magnitude of resultant force = 1.42 N  
direction of resultant relative to vertical = 58 [4]

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## IG物理 | 2024 M/J 简答卷 part 1

#0625 #IGCSE #physics #简答卷 #仅供参考

前五题难度一般吧 😊

除了Q5画图题可能会有人漏看? 或者画的时候没有注意  
角度已经大于critical angle. 应该发生全内反射

Say something...

145

56

79

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**C Cleary**

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