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# Mark Scheme (Results) 

Summer 2012

GCE Mechanics M5
(6681) Paper 1

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Summer 2012
Publications Code UA032687
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June 2012
6681 Mechanics M5
Mark Scheme




| Question Number | Scheme | Marks |
| :---: | :---: | :---: |
| 4. | $\begin{gathered} M(Q), 2 m g r \sin \beta+3 m g 2 r \sin \beta=15 m r^{2} \cdot \theta \\ \text { OR } \quad M(Q), 5 m g \frac{8 r}{5} \sin \beta=15 m r^{2} \cdot \theta \\ (\square) 2 m g \sin \beta+3 m g \sin \beta-X=2 m r \theta+3 m 2 r \cdot \theta \\ \text { OR } \quad(\square) 5 m g \sin \beta-X=5 m \frac{8 r}{5} \cdot \theta \\ \text { solving for } X, \\ X=\frac{11 m g}{60} \end{gathered}$ | M1 A1 <br> M1 A1 <br> M1 A1 <br> M1 A1 <br> M1 <br> A1 |





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