



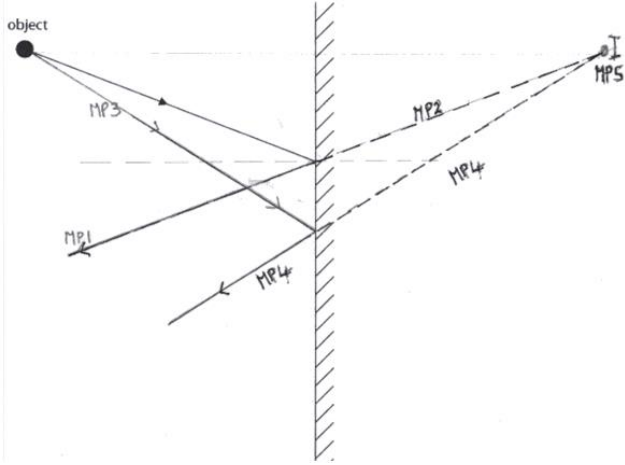
Mark Scheme (Results)

January 2018

Pearson Edexcel International GCSE

In Physics (4PH0) Paper 1P



| Question number | Answer | Notes | Marks |
|-----------------|---|---|-------|
| 8 a | <p>any four from:</p> <p>MP1. original ray reflected from mirror with $i=r$;</p> <p>MP2. reflected ray projected back behind the mirror along the same line;</p> <p>MP3. second ray drawn from the object to the mirror;</p> <p>MP4. second ray reflected correctly and projected back behind the mirror (such that it intersects the original ray projection);</p> <p>MP5. image labelled where the rays intersect;</p>  | <p>rays drawn do not need arrows</p> <p>judge reflection angle by eye</p> <p>line does not need to be dashed</p> <p>line does not need to be dashed</p> <p>allow this mark even if the intersection is in front of the mirror</p> | 4 |
| b | virtual; | allow lateral inversion / imaginary / object' | 1 |

Total for question 8 = 5 marks

| | | | | |
|---|-------|---|--|---|
| c | (i) | voltage = current x resistance; | allow rearrangements and standard symbols e.g. $V = I \times R$ reject c/C for current allow ecf from (i) | 1 |
| | (ii) | substitution AND rearrangement; evaluation to 2 or more significant figures; e.g. (current =) $6.10 / 1060$ (current =) 0.00575 (A) | allow 5.75 mA 0.0058 (A) | 2 |
| | (iii) | resistance decreases; voltage stays the same; ($I=V/R$ therefore) current increases; | | 3 |

Total for question 14 = 18 marks