

Question 4

- 4 A bullet is fired at $970 \text{ m}\cdot\text{s}^{-1}$ in an easterly direction. It reaches a target 200 m away, only 0,23 seconds later. Calculate:
- 4.1 the magnitude and direction of the acceleration of the bullet
(3)
- 4.2 the magnitude of the velocity with which the bullet strikes the target.
(3)

[06]

Question 5

Two identical insulated, graphite-coated polystyrene spheres are suspended from threads. The spheres are held a small distance apart. The charges on the Spheres **P** and **Q** are $-2,4 \text{ nC}$ and $+5,6 \text{ nC}$ respectively.



When the spheres are released they move towards each other.

- 5.1 Explain why the spheres move towards each other when they are released. (2)

The two spheres now touch each other and then separate.

- 5.2 Calculate the charge on each sphere after they touch and separate. (2)
- 5.3 Calculate the number of electrons transferred during contact. (4)
- 5.4 Which way will electrons move? Write only **from P to Q**, or **from Q to P**, or **neither way**? (1)
- 5.5 Explain your answer to Question 5.4. (2)

[11]

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