

(10 marks)

The image shows five 'Astro Cats' cards for the constellation Orion. Each card has a grey top section with stars and the 'ASTRO CATS' logo. The cards are:

- LUNA**: Energy: 7, Health: 80. Illustration of a cat in a space suit holding a small star.
- KEPLER**: Energy: 6, Health: 75. Illustration of a cat in a space suit.
- ORION**: Energy: 9, Health: 60. Illustration of a cat in a space suit.
- LYRA**: Energy: 6, Health: 9. Illustration of a cat in a space suit.
- SIRIUS**: Energy: 6, Health: 90. Illustration of a cat in a space suit.

Source: created with assistance from DALL-E 2

- (i) For **one randomly selected pack** of cards, calculate the:

Calculate the relevant probability to show that the collector's statement is incorrect.

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