

2018 Ph H1 Q8

Section: Particles and Waves

Topic: The Standard Model

Brief summary of the question

How many types of quark are there?

Worked solution

- The Standard Model has six types of quark.
- They are: Up (u), Down (d), Charm (c), Strange (s), Top (t), Bottom (b).
- These combine in various ways to form hadrons (baryons and mesons).

Final answer

B — 6.

Revision tips

Remember: “Up, Down, Strange, Charm, Bottom, Top”.
Quarks never exist alone — they are confined inside hadrons.
Each quark type has a corresponding antiquark.