**MA1 Week 14 Investigation**





A new home entertainment system needs to set in a room with dimensions 4m × 5m × 3m as shown in the diagram.

Expensive cabling is used to wire the room from corner A to corner G.

1. What is the length of cabling required to

go from A from A to E to H to G?

1. What length of cabling is required to go

from A from A to F to G?

1. What length of cabling is required to go

from A to E to G?

1. If cabling costs $25.50 per metre, which is the cheaper option?