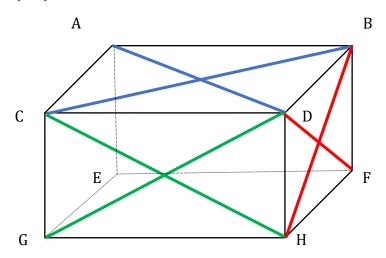
Pythagoras' Theorem - Lesson 12 - ANSWERS

In the cuboid below some of the **face** diagonals have been added. AD and CB (blue), CH and GD (green) and DF and BH (red).



- **1)** GF and EH on the bottom AF and EB on the back GA and CE on the left-hand face.
- **2)** a) edge
- **b)** face diagonal
- c) face diagonal
- d) edge

- e) edge
- f) face diagonal
- g) edge
- h) edge

- **3) a)** 10.8cm
- **b)** 7.2cm
- **c)** 11.7cm
- **d)** 10.8cm

- **4)** A cube has 12 space diagonals 2 on each of its six faces
- **5)** CH, BE and HC
- **6)** 8.8cm (rounded to one decimal place)
- 7) 10.6cm (rounded to one decimal place)
- **8)** 12.2cm (rounded to one decimal place)
- 9) 11.2cm (rounded to one decimal place)