Unit 102: Introduction to the trades in the construction and built environment sector

# Worksheet 4: Numeracy skills (tutor)

**Question 1 (linear metres)**

A carpenter has to fit a skirting board around a room 5m × 3m with a door opening of 800mm. How many linear metres are required in total?

Show your calculations:

Answer: 5 + 5 +3 + 3 − 0.800 = 15.2m

**Question 2 (areas)**

A plasterer has to board both sides of a stud partition which is 2.4m tall by 7.2m long. How many boards are required if each board is 1.2m × 2.4m?

Show your calculations:

Answer:

2.4 × 7.2 × 2 = 34.56 m2 [total area required]

1.2 × 2.4 + 2.88m2 [area of each board]

34.56 ÷ 2.88 = **12 boards**

**Question 3 (volume)**

A groundworker has to order concrete to pour a pad 3.5m wide by 5.5m long with a depth of 0.150m. How much concrete is required?

Show your calculations:

Answer: 3.5 × 5.5 × 0.150 = 2.89m3 [2.8875 before rounding]