

Workout

Question 1:

(a) 7.071cm or $\sqrt{50}$ cm or $5\sqrt{2}$ cm

(b) 8.66cm or $\sqrt{75}$ cm or $5\sqrt{3}$ cm

Question 2:

(a) 3.60555cm or $\sqrt{13}$ cm

(b) 6.32456cm or $\sqrt{40}$ cm or $2\sqrt{10}$ cm

(c) 6.7082cm or $3\sqrt{5}$ cm or $\sqrt{45}$ cm

(d) 7cm

Question 3:

(a) 10cm

(b) 13.4164cm or $\sqrt{180}$ cm or $6\sqrt{5}$ cm

(c) 15.62cm or $\sqrt{244}$ cm or $2\sqrt{61}$ cm

Question 4:

(a) 5.657vm or $\sqrt{32}$ cm or $4\sqrt{2}$ cm

(b) 2.8284cm or $2\sqrt{2}$ cm

(c) 6.4031cm or $\sqrt{41}$ cm

(d) 6.7082cm or $\sqrt{45}$ cm or $3\sqrt{5}$ cm

Apply

Question 1: 40.3113m or $5\sqrt{65}$ m

Question 2: yes, 102.1cm is the length of the diagonal.

Question 3: 294.05cm^3

Question 4: 12.806cm or $2\sqrt{41}$ cm