

## Chapter 20

### Exercise 20A

- 1 a** 12.4 *m*  
**b** 33.4 *m*
- 2 a** 12.4 *m*  
**b** 118 *m*<sup>2</sup>
- 3** 5.68 *m*
- 4 a** 4 *cm*  
**b** 36 *cm*<sup>2</sup>
- 5 a** 1.41 *cm*, 1.73 *cm*, 2 *cm*  
**b** 9.15 *cm*
- 6** 8.77 *m*
- 7** 314 *m*
- 8** 8.87 *m*
- 9** No. Too steep.
- 10** 250 *cm*
- 11 a** 6.84 *m*  
**b** 4.56  
**c** No. Too steep.
- 12** 4.24 *cm*
- 13 a** 11.9 *cm*  
**b** 136 *m*  
**c** 26.7 *cm*
- 14 a (i)** 28.7 *cm*  
**b (i)** 88.5 *m*  
**a (ii)** 195 *cm*  
**b (ii)** 694 *m*
- 15** No.
- 16** No.
- 17** 11.9 *cm*
- 18 a** 88.5 *m*  
**b** 13.4 *m*  
**c** 5 *m*
- 19** Yes, space diagonal is 8.37*m*.
- 20** No, space diagonal is 4.98*m*.
- 21 a** Very challenging  
**b** Manageable
- 22** Yes, gradient is 0.88.

### Activity

- 1 a** exercise for student  
**b** 10 triangles will reach 3.7 *cm*  
**c** 65%
- 2 a** exercise for student  
**b** 10 triangles will reach 1 *cm*  
**c** 21.6%
- 3** exercise for student