

*Pythagoras' Theorem*Answers

1 Pythagoras' Theorem

1. (a) 5 m (b) 13 cm (c) 9 cm (d) 24 m
(e) 10 m (f) 8 cm (g) 15 m (h) 39 cm
2. (a) 13.04 cm (b) 20.52 cm (c) 8.94 cm (d) 8.60 m (e) 7.14 cm
(f) 8.94 cm (g) 7.81 m (h) 11.83 m (i) 14.97 cm (j) 6.40 m
(k) 10.47 m (l) 7.07 m (m) 7.22 cm (n) 4.89 m
3. (a) 320 m (b) 233.2 m (c) 86.8 m
4. 2.5 m
5. 2.44 m
6. 9.54 m
7. 10.77 m
8. 4.24 m
9. 2.06 m
10. (a) 10.44 km (b) 14.32 km
11. (a) 2.95 m (b) Statement X

2 Further Work with Pythagoras' Theorem

1. (a) 7.14 (b) 7.07 (c) 5.39 (d) 7.75 (e) 10.95 (f) 14.28
 2. (a) 14.14 (b) 1.94 (c) 1.29 (d) 3.12
 3. (a) Yes (b) No (c) Yes (d) No
 4. (a) 3.46 m (b) 1.73 m (c) 5.69 m
 5. 122.47 cm
 6. 332.75 cm
 7. (a) 26.93 km (b) 26.93 km
 8. 28.21 cm
 9. 11.18 m , 11.18 m , 19.02 m
 10. 41.22 m , 48.21 m
 11. 7.75 cm ; 15.49 cm²
 12. (a) 27.71 cm² (b) 173.21 cm² (c) 1.73 cm²
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