

1. What is the length of the hypotenuse of a right-angled triangle if the other two sides are:
(lengths in cm, answer to 2 decimal places)

- (a) 12, 5 (b) 13, 7 (c) 11, 9
(d) 7, 15 (e) 23, 14 (f) 17, 12
(g) 34, 19 (h) 22, 31 (i) 43, 29

2. Given the length of the hypotenuse and one side respectively, find the missing side.
(lengths in cm, answer to 2 decimal places)

- (a) 12, 7 (b) 19, 5 (c) 61, 17
(d) 22, 13 (e) 34, 27 (f) 9, 4
(g) 12.1, 8.9 (h) 10.2, 7.1 (i) 29.9, 16.2

3. A ship travels a certain distance north or south before changing course travelling a further distance east or west.

For each pair of distances, what is the distance between the ship's starting position and where it ends up? (lengths in km, answer to 2 decimal places)

- (a) N 32, W 18 (b) S 27, E21 (c) S 19, E 25
(d) N 21, E 29 (e) S 38, W31 (f) N 18, W24
(g) S 41, E 23 (h) N 32, W27 (i) S 48, E 59

4. For an isosceles right angled triangle, given the hypotenuse, what is the sum of the other two sides? (lengths in cm, answer to 2 decimal places)

- (a) 20 (b) 36 (c) 48
(d) 31 (e) 17 (f) 10
(g) 11.2 (h) 9.8 (i) 20.1

1.

(a) 13

(b) 14.76

(c) 14.21

(d) 16.55

(e) 26.93

(f) 20.81

(g) 38.95

(h) 38.01

(i) 51.87

2.

(a) 9.75

(b) 18.33

(c) 58.58

(d) 17.75

(e) 20.66

(f) 8.06

(g) 8.20

(h) 7.32

(i) 25.13

3.

(a) 36.72

(b) 34.21

(c) 31.40

(d) 35.81

(e) 49.04

(f) 30.00

(g) 47.01

(h) 41.87

(i) 76.06

4.

(a) 28.28

(b) 50.91

(c) 67.88

(d) 43.84

(e) 24.04

(f) 14.14

(g) 15.84

(h) 13.86

(i) 28.43