Solutions – SOHCAHTOA (A)

In a right triangle, the opposite side is 10 cm and one of the acute angles θ = 38°. Find the hypotenuse to one decimal place.
16.2 cm

In a right triangle, the opposite side is 9 cm and the adjacent side is 21 cm. Find the size of the acute angle θ to one decimal place.
23.2°

In a right triangle, the hypotenuse is 6 cm and one of the acute angles θ = 23°. Find the adjacent side to one decimal place.
5.5 cm

In a right triangle, the adjacent side is 4 cm and the hypotenuse is 30 cm. Find the size of the acute angle θ to one decimal place.
82.3°

In a right triangle, the hypotenuse is 25 cm and one of the acute angles θ = 42°. Find the opposite side to one decimal place.
16.7 cm

Solutions – SOHCAHTOA (B)

In a right triangle, the adjacent side is 11 cm and the hypotenuse is 16 cm. Find the size of the acute angle θ to one decimal place.
46.6°

In a right triangle, the hypotenuse is 13 cm and one of the acute angles θ = 39°. Find the adjacent side to one decimal place.
10.1 cm

In a right triangle, the adjacent side is 19 cm and one of the acute angles θ = 33°. Find the opposite side to one decimal place.
12.3 cm

In a right triangle, the opposite side is 3 cm and the hypotenuse is 10 cm. Find the size of the acute angle θ to one decimal place.
17.5°

In a right triangle, the adjacent side is 14 cm and one of the acute angles θ = 47°. Find the opposite side to one decimal place.
15.0 cm

Solutions – SOHCAHTOA (C)

In a right triangle, the adjacent side is 6 cm and the hypotenuse is 10 cm. Find the size of the acute angle θ to one decimal place.
53.1°

In a right triangle, the hypotenuse is 16 cm and one of the acute angles θ = 20°. Find the adjacent side to one decimal place.
15.0 cm

In a right triangle, the opposite side is 10 cm and one of the acute angles θ = 70°. Find the hypotenuse to one decimal place.
10.6 cm

In a right triangle, the adjacent side is 8 cm and one of the acute angles θ = 39°. Find the opposite side to one decimal place.
6.5 cm

In a right triangle, the opposite side is 10 cm and the adjacent side is 15 cm. Find the size of the acute angle θ to one decimal place.
33.7°

Solutions – SOHCAHTOA (D)

In a right triangle, the adjacent side is 4 cm and the hypotenuse is 10 cm. Find the size of the acute angle θ to one decimal place.
66.4°

In a right triangle, the opposite side is 20 cm and the adjacent side is 14 cm. Find the size of the acute angle θ to one decimal place.
55.0°

In a right triangle, the adjacent side is 8 cm and one of the acute angles θ = 55°. Find the opposite side to one decimal place.
11.4 cm

In a right triangle, the adjacent side is 21 cm and one of the acute angles θ = 65°. Find the opposite side to one decimal place.
45.0 cm

In a right triangle, the adjacent side is 6 cm and one of the acute angles θ = 64°. Find the opposite side to one decimal place.
12.3 cm

Solutions – SOHCAHTOA (E)

In a right triangle, the opposite side is 18 cm and the adjacent side is 19 cm. Find the size of the acute angle θ to one decimal place.
43.5°

In a right triangle, the opposite side is 11 cm and the hypotenuse is 14 cm. Find the size of the acute angle θ to one decimal place.
51.8°

In a right triangle, the opposite side is 3 cm and the adjacent side is 15 cm. Find the size of the acute angle θ to one decimal place.
11.3°

In a right triangle, the adjacent side is 7 cm and one of the acute angles θ = 40°. Find the opposite side to one decimal place.
5.9 cm

In a right triangle, the opposite side is 6 cm and one of the acute angles θ = 56°. Find the hypotenuse to one decimal place.
7.2 cm

Solutions – SOHCAHTOA (F)

In a right triangle, the opposite side is 16 cm and the adjacent side is 14 cm. Find the size of the acute angle θ to one decimal place.
48.8°

In a right triangle, the adjacent side is 7 cm and the hypotenuse is 13 cm. Find the size of the acute angle θ to one decimal place.
57.4°

In a right triangle, the adjacent side is 22 cm and one of the acute angles θ = 64°. Find the opposite side to one decimal place.
45.1 cm

In a right triangle, the opposite side is 4 cm and the adjacent side is 6 cm. Find the size of the acute angle θ to one decimal place.
33.7°

In a right triangle, the adjacent side is 15 cm and one of the acute angles θ = 58°. Find the opposite side to one decimal place.
24.0 cm

Solutions – SOHCAHTOA (G)

In a right triangle, the opposite side is 4 cm and one of the acute angles $\theta = 40°$. Find the hypotenuse to one decimal place.

6.2 cm

In a right triangle, the adjacent side is 4 cm and the hypotenuse is 20 cm. Find the size of the acute angle θ to one decimal place.

78.5°

In a right triangle, the hypotenuse is 18 cm and one of the acute angles $\theta = 39°$. Find the adjacent side to one decimal place.

14.0 cm

In a right triangle, the adjacent side is 2 cm and the hypotenuse is 8 cm. Find the size of the acute angle θ to one decimal place.

75.5°

In a right triangle, the adjacent side is 11 cm and the hypotenuse is 30 cm. Find the size of the acute angle θ to one decimal place.

68.5°

Solutions – SOHCAHTOA (H)

In a right triangle, the hypotenuse is 8 cm and one of the acute angles θ = 68°. Find the opposite side to one decimal place.
7.4 cm

In a right triangle, the opposite side is 3 cm and the adjacent side is 23 cm. Find the size of the acute angle θ to one decimal place.
7.4°

In a right triangle, the opposite side is 7 cm and the hypotenuse is 23 cm. Find the size of the acute angle θ to one decimal place.
17.7°

In a right triangle, the opposite side is 11 cm and one of the acute angles θ = 24°. Find the hypotenuse to one decimal place.
27.0 cm

In a right triangle, the adjacent side is 4 cm and the hypotenuse is 9 cm. Find the size of the acute angle θ to one decimal place.
63.6°

Solutions – SOHCAHTOA (I)

In a right triangle, the hypotenuse is 23 cm and one of the acute angles $\theta = 32°$. Find the opposite side to one decimal place.

12.2 cm

In a right triangle, the opposite side is 8 cm and the adjacent side is 19 cm. Find the size of the acute angle θ to one decimal place.

22.8°

In a right triangle, the opposite side is 17 cm and the adjacent side is 9 cm. Find the size of the acute angle θ to one decimal place.

62.1°

In a right triangle, the opposite side is 9 cm and the hypotenuse is 13 cm. Find the size of the acute angle θ to one decimal place.

43.8°

In a right triangle, the hypotenuse is 17 cm and one of the acute angles $\theta = 23°$. Find the adjacent side to one decimal place.

15.6 cm

Solutions – SOHCAHTOA (J)

In a right triangle, the hypotenuse is 8 cm and one of the acute angles θ = 25°. Find the opposite side to one decimal place.
3.4 cm

In a right triangle, the adjacent side is 14 cm and the hypotenuse is 22 cm. Find the size of the acute angle θ to one decimal place.
50.5°

In a right triangle, the opposite side is 2 cm and the hypotenuse is 9 cm. Find the size of the acute angle θ to one decimal place.
12.8°

In a right triangle, the hypotenuse is 11 cm and one of the acute angles θ = 59°. Find the adjacent side to one decimal place.
5.7 cm

In a right triangle, the adjacent side is 15 cm and one of the acute angles θ = 62°. Find the opposite side to one decimal place.
28.2 cm