

Worksheet

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Problem quickname: 3335

1)

For a triangle, consider the length of one side a, b, c , the length of the corresponding height h_a, h_b or h_c and the area A . Calculate the respective missing value.

- a) $h_a = 7.6 \text{ cm}, h_c = 9.1 \text{ cm}, A = 127.3 \text{ cm}^2, a = ?$
- b) $h_c = 2.8 \text{ cm}, h_a = 3.9 \text{ cm}, A = 9.8 \text{ cm}^2, c = ?$
- c) $h_c = 50 \text{ cm}, h_b = 41 \text{ cm}, A = 1025 \text{ cm}^2, b = ?$
- d) $b = 47 \text{ cm}, c = 40 \text{ cm}, A = 940 \text{ cm}^2, h_c = ?$
- e) $h_b = 3.9 \text{ cm}, h_c = 48.6 \text{ cm}, A = 97.2 \text{ cm}^2, c = ?$

2)

For a triangle, consider the length of one side a, b, c , the length of the corresponding height h_a, h_b or h_c and the area A . Calculate the respective missing value.

- a) $h_b = 7.4 \text{ cm}, h_a = 3.5 \text{ cm}, A = 14.8 \text{ cm}^2, b = ?$
- b) $h_a = 22.3 \text{ cm}, h_c = 22.8 \text{ cm}, A = 386.91 \text{ cm}^2, a = ?$
- c) $h_c = 13.7 \text{ cm}, h_b = 19.8 \text{ cm}, A = 198 \text{ cm}^2, b = ?$
- d) $h_b = 31.6 \text{ cm}, h_a = 12.6 \text{ cm}, A = 236.88 \text{ cm}^2, a = ?$
- e) $a = 29 \text{ cm}, b = 17 \text{ cm}, A = 224.75 \text{ cm}^2, h_a = ?$
- f) $h_b = 36.5 \text{ cm}, h_a = 24.1 \text{ cm}, A = 693.5 \text{ cm}^2, b = ?$
- g) $a = 68.5 \text{ cm}, b = 35 \text{ cm}, h_b = 46.6 \text{ cm}, A = ?$
- h) $c = 33 \text{ cm}, b = 38 \text{ cm}, A = 605.55 \text{ cm}^2, h_c = ?$
- i) $h_c = 29.9 \text{ cm}, h_a = 13.3 \text{ cm}, A = 283.96 \text{ cm}^2, a = ?$
- j) $c = 36 \text{ cm}, b = 5 \text{ cm}, A = 62 \text{ cm}^2, h_b = ?$

3)

For a triangle, consider the length of one side a, b, c , the length of the corresponding height h_a, h_b or h_c and the area A . Calculate the respective missing value.

- a) $h_b = 26.2 \text{ cm}, A = 170.3 \text{ cm}^2, b = ?$
- b) $h_b = 24 \text{ cm}, A = 492 \text{ cm}^2, b = ?$
- c) $h_b = 22.5 \text{ cm}, A = 112.5 \text{ cm}^2, b = ?$
- d) $h_b = 6.3 \text{ cm}, A = 132.3 \text{ cm}^2, b = ?$
- e) $a = 42.5 \text{ cm}, h_a = 20.2 \text{ cm}, A = ?$

4)

For a triangle, consider the length of one side a, b, c , the length of the corresponding height h_a, h_b or h_c and the area A . Calculate the respective missing value.

- a) $c = 22 \text{ cm}, b = 8 \text{ cm}, A = 70.4 \text{ cm}^2, h_b = ?$
- b) $a = 52.6 \text{ cm}, b = 27 \text{ cm}, h_a = 21.4 \text{ cm}, A = ?$

- c) $c = 45 \text{ cm}, b = 49 \text{ cm}, A = 779.1 \text{ cm}^2, h_b = ?$
- d) $h_a = 23.4 \text{ cm}, h_c = 25.4 \text{ cm}, A = 482.6 \text{ cm}^2, c = ?$
- e) $h_a = 7.2 \text{ cm}, h_b = 8.2 \text{ cm}, A = 139.4 \text{ cm}^2, b = ?$

Good Luck!