

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) $h_a = 16$ cm, $A = 453.6$ cm², $a = ?$ b) $a = 8.3$ cm, $h_a = 9.6$ cm, $A = ?$
c) $h_b = 43.3$ cm, $A = 86.6$ cm², $b = ?$ d) $h_b = 12.4$ cm, $A = 49.6$ cm², $b = ?$
e) $a = 51.3$ cm, $h_a = 15.8$ cm, $A = ?$

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) $h_c = 47.2$ cm, $h_b = 4$ cm, $A = 94.4$ cm², $c = ?$
b) $h_b = 32.5$ cm, $h_c = 29.7$ cm, $A = 520$ cm², $b = ?$
c) $a = 38.7$ cm, $c = 36$ cm, $A = 138.6$ cm², $h_c = ?$
d) $h_a = 11$ cm, $h_b = 44.1$ cm, $A = 242.55$ cm², $a = ?$
e) $a = 51$ cm, $b = 10$ cm, $h_b = 46.9$ cm, $A = ?$

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) $c = 4$ cm, $a = 30$ cm, $A = 60$ cm², $h_c = ?$
b) $h_c = 13.9$ cm, $h_b = 22.9$ cm, $A = 159.85$ cm², $c = ?$
c) $h_c = 29.3$ cm, $h_a = 21.8$ cm, $A = 336.81$ cm², $a = ?$
d) $a = 5.5$ cm, $b = 7$ cm, $h_b = 3.1$ cm, $A = ?$
e) $c = 9$ cm, $b = 16$ cm, $A = 71.55$ cm², $h_c = ?$
f) $b = 5$ cm, $h_a = 4.5$ cm, $h_b = 9.9$ cm, $A = ?$
g) $c = 36$ cm, $a = 25.8$ cm, $A = 266.4$ cm², $h_c = ?$
h) $h_c = 7.2$ cm, $h_b = 29.6$ cm, $A = 118.8$ cm², $c = ?$
i) $a = 25.3$ cm, $b = 12$ cm, $h_b = 18.1$ cm, $A = ?$
j) $c = 39$ cm, $b = 4$ cm, $A = 56.55$ cm², $h_c = ?$

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) $h_c = 21.9$ cm, $A = 448.95$ cm², $c = ?$ b) $h_b = 28.3$ cm, $A = 283$ cm², $b = ?$
c) $h_c = 4.1$ cm, $A = 57.4$ cm², $c = ?$ d) $h_c = 20.6$ cm, $A = 309$ cm², $c = ?$

e) $c = 35$ cm, $h_c = 9.9$ cm, $A = ?$

Good Luck!