

Worksheet

05/20/2020

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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.

Quick:
3335

- a) $c = 43$ cm, $b = 11$ cm, $A = 221.45$ cm², $h_c = 10.3$ cm
- b) $c = 5$ cm, $a = 17.6$ cm, $h_c = 15.8$ cm, $A = 39.5$ cm²
- c) $h_c = 8.2$ cm, $h_b = 4.1$ cm, $A = 24.6$ cm², $c = 6$ cm
- d) $h_b = 19.3$ cm, $h_a = 18.3$ cm, $A = 222.35$ cm², $a = 24.3$ cm
- e) $c = 22$ cm, $b = 25$ cm, $h_c = 22.4$ cm, $A = 246.4$ cm²
- f) $h_a = 35.8$ cm, $h_b = 37.8$ cm, $A = 718.2$ cm², $b = 38$ cm
- g) $b = 27$ cm, $h_c = 24.4$ cm, $h_b = 7.2$ cm, $A = 97.2$ cm²
- h) $h_a = 11.5$ cm, $h_b = 14.2$ cm, $A = 220.1$ cm², $b = 31$ cm
- i) $h_c = 26.8$ cm, $h_b = 28.3$ cm, $A = 495.25$ cm², $b = 35$ cm
- j) $c = 27$ cm, $h_b = 25.6$ cm, $h_c = 40.8$ cm, $A = 550.8$ cm²

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.

Quick:
3335

- a) $h_a = 25$ cm, $A = 461.25$ cm², $a = 36.9$ cm
- b) $b = 3$ cm, $A = 53.25$ cm², $h_b = 35.5$ cm
- c) $b = 27$ cm, $A = 144.45$ cm², $h_b = 10.7$ cm
- d) $h_c = 50$ cm, $A = 625$ cm², $c = 25$ cm
- e) $h_a = 17.2$ cm, $A = 473.86$ cm², $a = 55.1$ cm

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.

Quick:
3335

- a) $b = 24$ cm, $c = 3$ cm, $h_c = 21.2$ cm, $A = 31.8$ cm²
- b) $h_b = 21$ cm, $h_a = 9.7$ cm, $A = 105.24$ cm², $a = 21.7$ cm
- c) $b = 22$ cm, $a = 18.3$ cm, $A = 47.3$ cm², $h_b = 4.3$ cm
- d) $a = 14.2$ cm, $b = 9$ cm, $h_a = 5.5$ cm, $A = 39.05$ cm²
- e) $h_c = 16.7$ cm, $h_a = 10.6$ cm, $A = 166.95$ cm², $a = 31.5$ cm

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.

Quick:
3335

- a) $h_c = 45.1$ cm, $h_b = 18.2$ cm, $A = 428.45$ cm², $c = 19$ cm

- b) $b = 40$ cm, $a = 27.8$ cm, $A = 403.1$ cm², $h_a = 29$ cm
- c) $h_b = 40.8$ cm, $h_c = 5.3$ cm, $A = 122.4$ cm², $b = 6$ cm
- d) $b = 26$ cm, $a = 39.8$ cm, $A = 447.2$ cm², $h_b = 34.4$ cm
- e) $h_b = 34.5$ cm, $h_c = 22.4$ cm, $A = 414$ cm², $b = 24$ cm
- f) $c = 30$ cm, $h_c = 13.4$ cm, $h_b = 28.8$ cm, $A = 201$ cm²
- g) $h_a = 11.6$ cm, $h_c = 14.9$ cm, $A = 119.48$ cm², $a = 20.6$ cm
- h) $c = 29$ cm, $b = 4$ cm, $A = 46.4$ cm², $h_c = 3.2$ cm
- i) $b = 36$ cm, $h_c = 35.8$ cm, $h_b = 18.9$ cm, $A = 340.2$ cm²
- j) $h_b = 10.9$ cm, $h_c = 40.7$ cm, $A = 223.45$ cm², $b = 41$ cm

Good Luck!