Worksheet

05/20/2020

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Problem quickname: 3335

1)

Quick: 3335

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) $h_a = 7.6$ cm, $h_c = 9.1$ cm, $A = 127.3$ cm^2, $a = 33.5$ cm
b) $h_c = 2.8$ cm, $h_a = 3.9$ cm, $A = 9.8$ cm^2, $c = 7$ cm
c) $h_c = 50$ cm, $h_b = 41$ cm, $A = 1025$ cm^2, $b = 50$ cm
d) $b = 47$ cm,$c = 40$ cm, $A = 940$ cm^2, $h_c = 47$ cm
e) $h_b = 3.9$ cm, $h_c = 48.6$ cm, $A = 97.2$ cm^2, $c = 4$ cm

2)

Quick: 3335

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) $h_b = 7.4$ cm, $h_a = 3.5$ cm, $A = 14.8$ cm^2, $b = 4$ cm
b) $h_a = 22.3$ cm, $h_c = 22.8$ cm, $A = 386.91$ cm^2, $a = 34.7$ cm
c) $h_c = 13.7$ cm, $h_b = 19.8$ cm, $A = 198$ cm^2, $b = 20$ cm
d) $h_b = 31.6$ cm, $h_a = 12.6$ cm, $A = 236.88$ cm^2, $a = 37.6$ cm
e) $a = 29$ cm, $b = 17$ cm, $A = 224.75$ cm^2, $h_a = 15.5$ cm
f) $h_b = 36.5$ cm, $h_a = 24.1$ cm, $A = 693.5$ cm^2, $b = 38$ cm
g) $a = 68.5$ cm,$b = 35$ cm, $h_b = 46.6$ cm, $A = 815.5$ cm^2
h) $c = 33$ cm, $b = 38$ cm, $A = 605.55$ cm^2, $h_c = 36.7$ cm
i) $h_c = 29.9$ cm, $h_a = 13.3$ cm, $A = 283.96$ cm^2, $a = 42.7$ cm
j) $c = 36$ cm,$b = 5$ cm, $A = 62$ cm^2, $h_b = 24.8$ cm

3)

Quick: 3335

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) $h_b = 26.2$ cm, $A = 170.3$ cm^2, $b = 13$ cm
b) $h_b = 24$ cm, $A = 492$ cm^2, $b = 41$ cm
c) $h_b = 22.5$ cm, $A = 112.5$ cm^2, $b = 10$ cm
d) $h_b = 6.3$ cm, $A = 132.3$ cm^2, $b = 42$ cm
e) $a = 42.5$ cm, $h_a = 20.2$ cm, $A = 429.25$ cm^2

4)

Quick: 3335

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) $c = 22$ cm,$b = 8$ cm, $A = 70.4$ cm^2, $h_b = 17.6$ cm

b) $a = 52.6$ cm, $b = 27$ cm, $h_a = 21.4$ cm, $A = 562.82$ cm^2
c) $c = 45$ cm,$b = 49$ cm, $A = 779.1$ cm^2, $h_b = 31.8$ cm
d) $h_a = 23.4$ cm, $h_c = 25.4$ cm, $A = 482.6$ cm^2, $c = 38$ cm
e) $h_a = 7.2$ cm, $h_b = 8.2$ cm, $A = 139.4$ cm^2, $b = 34$ cm

Good Luck!