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) $h_a = 16$ cm, $A = 453.6$ cm^2, $a = 56.7$ cm
b) $a = 8.3$ cm, $h_a = 9.6$ cm, $A = 39.84$ cm^2
c) $h_b = 43.3$ cm, $A = 86.6$ cm^2, $b = 4$ cm
d) $h_b = 12.4$ cm, $A = 49.6$ cm^2, $b = 8$ cm
e) $a = 51.3$ cm, $h_a = 15.8$ cm, $A = 405.27$ cm^2

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) $h_c = 47.2$ cm, $h_b = 4$ cm, $A = 94.4$ cm^2, $c = 4$ cm
b) $h_b = 32.5$ cm, $h_c = 29.7$ cm, $A = 520$ cm^2, $b = 32$ cm
c) $a = 38.7$ cm,$c = 36$ cm, $A = 138.6$ cm^2, $h_c = 7.7$ cm
d) $h_a = 11$ cm, $h_b = 44.1$ cm, $A = 242.55$ cm^2, $a = 44.1$ cm
e) $a = 51$ cm,$b = 10$ cm, $h_b = 46.9$ cm, $A = 234.5$ cm^2

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) $c = 4$ cm, $a = 30$ cm, $A = 60$ cm^2, $h_c = 30$ cm
b) $h_c = 13.9$ cm, $h_b = 22.9$ cm, $A = 159.85$ cm^2, $c = 23$ cm
c) $h_c = 29.3$ cm, $h_a = 21.8$ cm, $A = 336.81$ cm^2, $a = 30.9$ cm
d) $a = 5.5$ cm,$b = 7$ cm, $h_b = 3.1$ cm, $A = 10.85$ cm^2
e) $c = 9$ cm, $b = 16$ cm, $A = 71.55$ cm^2, $h_c = 15.9$ cm
f) $b = 5$ cm, $h_a = 4.5$ cm, $h_b = 9.9$ cm, $A = 24.75$ cm^2
g) $c = 36$ cm, $a = 25.8$ cm, $A = 266.4$ cm^2, $h_c = 14.8$ cm
h) $h_c = 7.2$ cm, $h_b = 29.6$ cm, $A = 118.8$ cm^2, $c = 33$ cm
i) $a = 25.3$ cm,$b = 12$ cm, $h_b = 18.1$ cm, $A = 108.6$ cm^2
j) $c = 39$ cm, $b = 4$ cm, $A = 56.55$ cm^2, $h_c = 2.9$ cm

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) $h_c = 21.9$ cm, $A = 448.95$ cm^2, $c = 41$ cm

b) $h_b = 28.3$ cm, $A = 283$ cm^2, $b = 20$ cm
c) $h_c = 4.1$ cm, $A = 57.4$ cm^2, $c = 28$ cm
d) $h_c = 20.6$ cm, $A = 309$ cm^2, $c = 30$ cm
e) $c = 35$ cm, $h_c = 9.9$ cm, $A = 173.25$ cm^2

Good Luck!