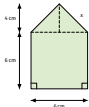


Build Tasks — Answers



Find x with Pythagoras (roof/cap run is half the base), then add every outer edge.

1.



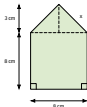
Solution

$$x^2 = 3^2 + 4^2 = 25$$

$$\text{so } x = 5$$

$$P = 3(6) + 2(5) = 28$$

2.



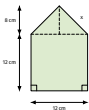
Solution

$$x^2 = 4^2 + 3^2 = 25$$

$$\text{so } x = 5$$

$$P = 3(8) + 2(5) = 34$$

3.



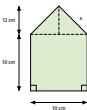
Solution

$$x^2 = 6^2 + 8^2 = 100$$

$$\text{so } x = 10$$

$$P = 3(12) + 2(10) = 56$$

4.



Solution

$$x^2 = 5^2 + 12^2 = 169$$

$$\text{so } x = 13$$

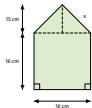
$$P = 3(10) + 2(13) = 56$$

Build Tasks — Answers



Find x with Pythagoras (roof/cap run is half the base), then add every outer edge.

5.



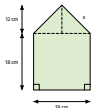
Solution

$$x^2 = 8^2 + 15^2 = 289$$

$$\text{so } x = 17$$

$$P = 3(16) + 2(17) = 82$$

6.



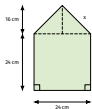
Solution

$$x^2 = 9^2 + 12^2 = 225$$

$$\text{so } x = 15$$

$$P = 3(18) + 2(15) = 84$$

7.



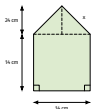
Solution

$$x^2 = 12^2 + 16^2 = 400$$

$$\text{so } x = 20$$

$$P = 3(24) + 2(20) = 112$$

8.



Solution

$$x^2 = 7^2 + 24^2 = 625$$

$$\text{so } x = 25$$

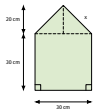
$$P = 3(14) + 2(25) = 92$$

Build Tasks — Answers



Find x with Pythagoras (roof/cap run is half the base), then add every outer edge.

9.



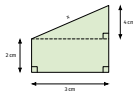
Solution

$$x^2 = 15^2 + 20^2 = 625$$

$$\text{so } x = 25$$

$$P = 3(30) + 2(25) = 140$$

10.



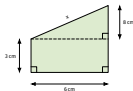
Solution

$$x^2 = 3^2 + 4^2 = 25$$

$$\text{so } x = 5$$

$$P = 3 + 2 + (2 + 4) + 5 = 16$$

11.



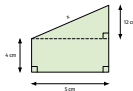
Solution

$$x^2 = 6^2 + 8^2 = 100$$

$$\text{so } x = 10$$

$$P = 6 + 3 + (3 + 8) + 10 = 30$$

12.



Solution

$$x^2 = 5^2 + 12^2 = 169$$

$$\text{so } x = 13$$

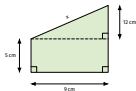
$$P = 5 + 4 + (4 + 12) + 13 = 38$$

Build Tasks — Answers



Find x with Pythagoras (roof/cap run is half the base), then add every outer edge.

13.



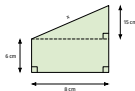
Solution

$$x^2 = 9^2 + 12^2 = 225$$

$$\text{so } x = 15$$

$$P = 9 + 5 + \\ (5+12) + 15 = 46$$

14.



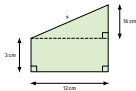
Solution

$$x^2 = 8^2 + 15^2 = 289$$

$$\text{so } x = 17$$

$$P = 8 + 6 + \\ (6+15) + 17 = 52$$

15.



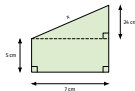
Solution

$$x^2 = 12^2 + 16^2 = 400$$

$$\text{so } x = 20$$

$$P = 12 + 3 + \\ (3+16) + 20 = 54$$

16.



Solution

$$x^2 = 7^2 + 24^2 = 625$$

$$\text{so } x = 25$$

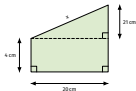
$$P = 7 + 5 + \\ (5+24) + 25 = 66$$

Build Tasks — Answers



Find x with Pythagoras (roof/cap run is half the base), then add every outer edge.

17.



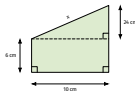
Solution

$$x^2 = 20^2 + 21^2 = 841$$

$$\text{so } x = 29$$

$$P = 20 + 4 + (4+21) + 29 = 78$$

18.



Solution

$$x^2 = 10^2 + 24^2 = 676$$

$$\text{so } x = 26$$

$$P = 10 + 6 + (6+24) + 26 = 72$$

19.



Solution

half base = 4

$$x^2 = 4^2 + 3^2 = 25,$$

$$x = 5$$

Cap

$$P = 8 + 2(5) = 18$$

20.



Solution

half base = 3

$$x^2 = 3^2 + 4^2 = 25,$$

$$x = 5$$

Cap

$$P = 6 + 2(5) = 16$$

Build Tasks — Answers



Find x with Pythagoras (roof/cap run is half the base), then add every outer edge.

21.



Solution

half base = 8

$$x^2 = 8^2 + 6^2 = 100,$$

$$x = 10$$

Cap

$$P = 16 + 2(10) = 36$$

22.



Solution

half base = 5

$$x^2 = 5^2 + 12^2 = 169,$$

$$x = 13$$

Cap

$$P = 10 + 2(13) = 36$$

23.



Solution

half base = 12

$$x^2 = 12^2 + 16^2 = 400,$$

$$x = 20$$

Cap

$$P = 24 + 2(20) = 64$$

24.



Solution

half base = 9

$$x^2 = 9^2 + 12^2 = 225,$$

$$x = 15$$

Cap

$$P = 18 + 2(15) = 48$$

Build Tasks — Answers



Find x with Pythagoras (roof/cap run is half the base), then add every outer edge.

25.



Solution

$$\begin{aligned}\text{half base} &= 7 \\ x^2 &= 7^2 + 24^2 = 625, \\ x &= 25\end{aligned}$$

Cap

$$P = 14 + 2(25) = 64$$

26.



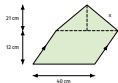
Solution

$$\begin{aligned}\text{half base} &= 15 \\ x^2 &= 15^2 + 8^2 = 289, \\ x &= 17\end{aligned}$$

Cap

$$P = 30 + 2(17) = 64$$

27.



Solution

$$\begin{aligned}\text{half base} &= 20 \\ x^2 &= 20^2 + 21^2 = 841, \\ x &= 29\end{aligned}$$

Cap

$$P = 40 + 2(29) = 98$$