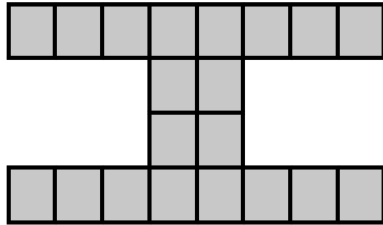
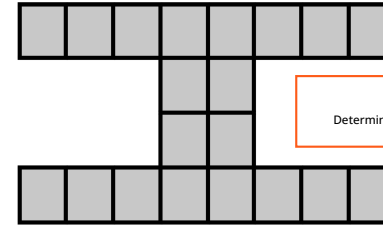


Each small region in the figure shown is a square.
The area of the entire figure is 500 cm^2 .
What is the number of cm in the perimeter of the entire figure?



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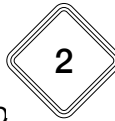
Each small region in the figure shown is a square.
The area of the entire figure is 500 cm^2 .
What is the number of cm in the perimeter of the entire figure?



HINT
Determine the length of the side of a small square.

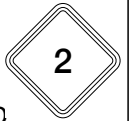
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A cricket chirps 8 times in 6 seconds.
At that rate, how many times does the cricket chirp
in 2 minutes?



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A cricket chirps 8 times in 6 seconds.
At that rate, how many times does the cricket chirp
in 2 minutes?



HINT
Set up a proportion using chirps per second.

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The sum of the three-digit number AAA and the two-digit number BB is the four-digit number CD6E.

A, B, C, D, and E are different digits.

What four-digit number does CD6E represent?



$$\begin{array}{r}
 \text{A A A} \\
 + \text{B B} \\
 \hline
 \text{C D 6 E}
 \end{array}$$

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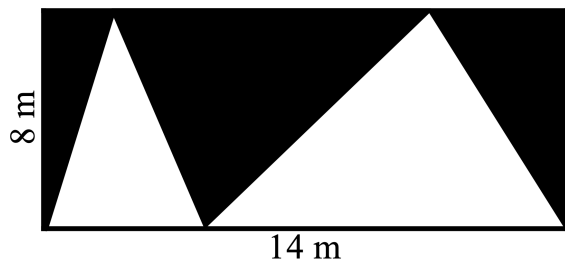


$$\begin{array}{r}
 \text{A A A} \\
 + \text{B B} \\
 \hline
 \text{C D 6 E}
 \end{array}$$

HINT
Work left to right.

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What is the area, in square metres, of the shaded part of the rectangle?

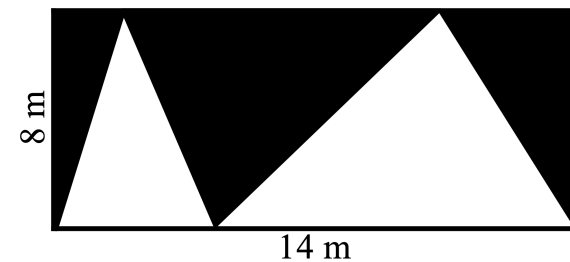


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What is the area, in square metres, of the shaded part of the rectangle?



HINT
Split the region into simpler figures.



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A bowl contains 100 pieces of coloured candy:
54 green, 28 red, 10 yellow, and 8 blue.

5

They are all wrapped in foil, so you do not know the colour of any piece of candy.

What is the least number of pieces you must take to be sure that you have at least 15 pieces of the same colour?

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54 green, 28 red, 10 yellow, and 8 blue.

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What is the least number of pieces you must take to be sure that you have at least 15 pieces of the same colour?

HINT
Consider the worst case possible.

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Answers:

1: **180** cm

2: **160** times

3: **1065**

4: **56 sq m**

5: **47 pieces**

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