

Number Nest Weekly Challenge



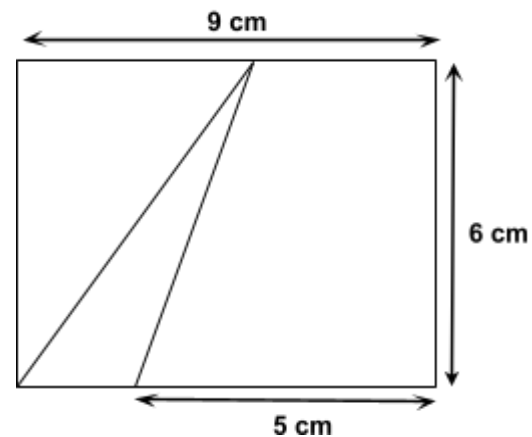
Warm up

1. Fill in the missing blank: $3.1 - __ = 1.7$
2. What is 50% of 78:
3. What is 1000 km in miles:
4. How many minutes are there between 8:34 am and 11:42 am?

5 miles = 8 km

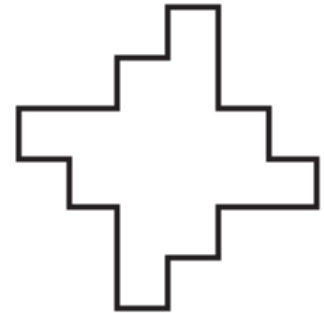
Activity

1. Bennet's buttons weigh 1.5 grams each. How many buttons will Bennet have in a kilogram?
2. Work out the area of the triangle in the diagram below.

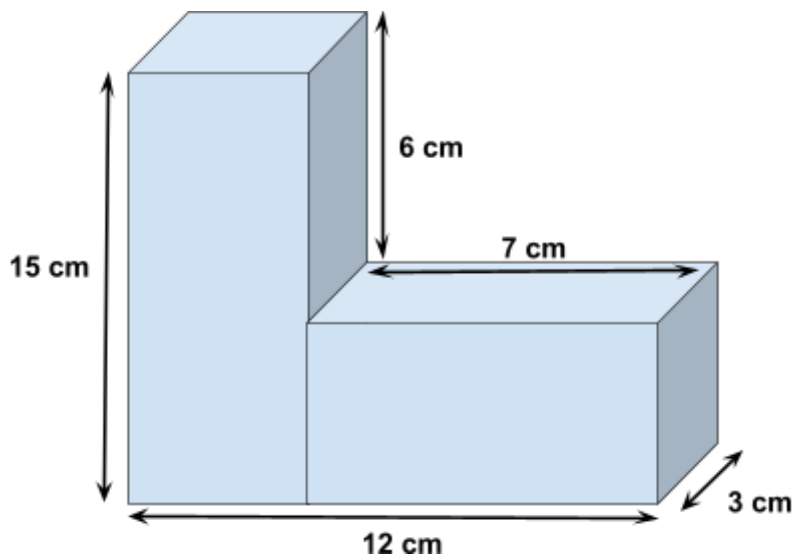


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3. The shape on the right is made of 4 longlines of equal length and 16 short lines of equal length. All the angles are right angles. The area of the shape is 144 cm^2 . What is the perimeter of the shape?



4. Work out the volume of the two cuboids in the diagram below.



Puzzle

Work out the value of these emojis below:

$$\begin{aligned}
 \text{chicken} + \text{rabbit} + \text{rabbit} &= 19 \\
 \text{chicken} + \text{bell} + \text{bell} &= 17 \\
 \text{chicken} + \text{chicken} + \text{bell} &= 13
 \end{aligned}$$

$$\begin{aligned}
 \text{rabbit} &= \\
 \text{chicken} &= \\
 \text{bell} &=
 \end{aligned}$$