



Mathematical Snake

Can you get all the way to the end?

The final answer is given for you...
...check to see if you got it right!



Q1

What is the second smallest prime number?

Pass this number onto Q2.



3



Q2

A is the number you receive from Q1.

The length of the shorter side of a rectangle is A cm. The longer side is 5 times as long as the shorter side.

What is the area of the rectangle?
Pass this value onto Q3.

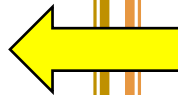
45

Q3

B is the number you receive from Q2.

Pass on the value of

$$C = \frac{(B - 1)}{4}$$



11



Q4

C is the number you receive from Q3.

What is the sum of all the positive whole numbers that are multiples of 4 and less than C .

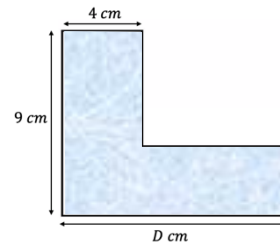
Pass this value onto Q5.

12



Q5

D is the number you receive from Q4.



What is the perimeter of this shape?
Pass this value onto Q6.

42



Q6

E is the number you receive from Q5.

What is the largest square number less than the value E ?

Pass this value onto Q7.

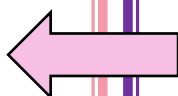
36

Q7

F is the number you receive from Q6.

What is the value of:

$$\frac{F}{9} + \frac{F - 6}{5} + \frac{F + 4}{4} ?$$



Check your final answer here →

**Final
Answer**
20