Where in the world is our agent?



An investigation involving estimation, formula and addition.

 Top government agents have produced a secret code. Can you study the code and explain the formula?

Secret country code breaker

 Each letter has a value which is equal to the position it has in the alphabet.

- A is the first letter = 1
- B is second = 2

• Z is last, so = 26

Where in the world is this?



6 18 1 14 3 5

Can you add up the numbers to give the country a quick code number?

$$6 + 18 + 1 + 14 + 3 + 5 =$$

How do you add up?

$$6 + 18 + 1 + 14 + 3 + 5 =$$

Along the line?

Tens first then units?

Units then tens?

Big to small?

How do you add?

$$6 + 18 + 1 + 14 + 3 + 5 =$$

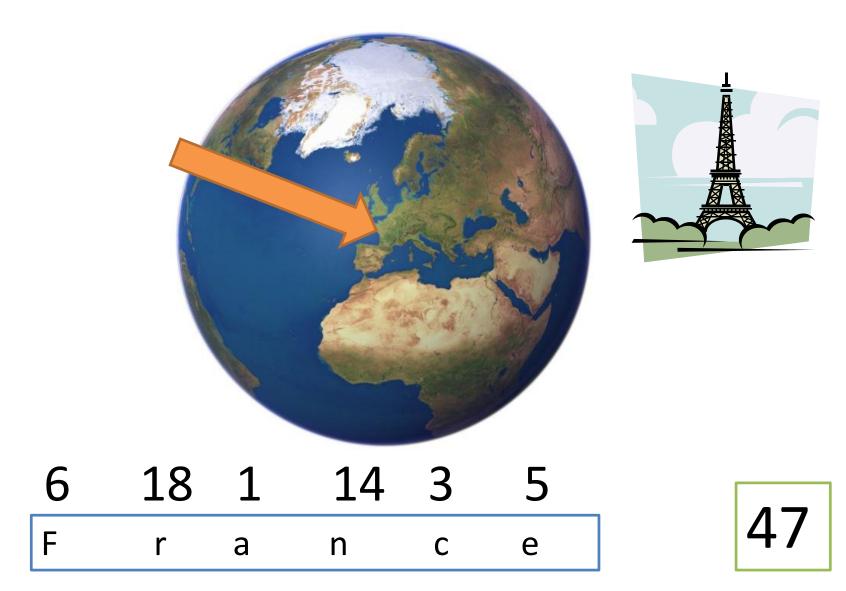
6+14 18+1 3+5

20 19 8

20 20 7

47

• Where in the world?



France is worth 47.....

Can you predict which country has the most points?

Latvia

England

Why did you think this?

LatVia

England

Can you work out the number codes for

Latvia

England

Can you work out the number codes for

• Latvia

12 1 20 22 9 1=

England

Can you work out the number codes for

• Latvia

England

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    5 14 7 12 1 14 4 =
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Can you work out the number codes for

Latvia

1 20 22 9 1 = 65

England

 \bullet 5 14 7 12 1 14 4 = 57

Greece

• 7 18 5 5 3 5 =



Where is code 100?

Wales Denmark New Zealand

Turkey Holland Zimbabwe

India Australia Italy

America Venezuela Canada

Egypt Germany Japan

and where shall we take him to hide? (the smallest total)

Where is code 100 answers.

Wales Denmark New Zealand

Turkey 100 Holland Zimbabwe

India Australia Italy

America Venezuela Canada 24

Egypt Germany Japan

and where shall we take him to hide? (the smallest total)

The code was too easy to break.

I have designed a new code using a formula of numbers for letters but I have lost my code breaker. All I have are the names of 6 countries and their codes but they are muddled.

Can you sort them out and work out the formula of the new code?

abcdefghijklm

New code breaker

nopqrstuvwxyz

Country Codes

Croatia5 35 29 1 39 17 1

Bulgaria3 41 23 13 1 35 17 1

Can you work out the new code breaker?

a b c d e f g h i j k l m
1 3 5 7 9 11 13 15 17 19 21 23 25

New code breaker

n o p q r s t u v w x y z 27 29 31 33 35 37 39 41 43 45 47 49 51

Create your own message in code

7 29 27 39 11 29 35 13 9 39 39 29

17 27 3 23 41 7 9 49 29 41 35

3 29 7 9!