

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?

a b c d e f g h i j k l m

1 2 3 4 5 6 7 8 9 10 11 12 13

Secret country code breaker

n o p q r s t u v w x y z

14 15 16 17 18 19 20 21 22 23 24 25 26

- 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?



6 18 1 14 3 5
F r a n c e

47

France is worth 47.....

Can you predict which country has the most points?

- Latvia
- England
- Greece

Why did you think this?

- Latvia
- England
- Greece

Can you work out the number codes for

- Latvia
- England
- Greece

Can you work out the number codes for

- Latvia

12 1 20 22 9 1 = 

- England

- Greece

Can you work out the number codes for

- Latvia

12 1 20 22 9 1 = 65

- England

• 5 14 7 12 1 14 4 = 

- Greece

Can you work out the number codes for

- Latvia

12 1 20 22 9 1 = 65

- England

• 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?

a b c d e f g h i j k l m

New code breaker

n o p q r s t u v w x y z

Country Codes

- Croatia

5 35 29 1 39 17 1

- Bulgaria

3 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!