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Question 1:

999	998	997	996
729	648	567	486
126	192	210	192
12	18	?	18

Which of the following is the missing number?

☒ Don't know

X : Don't know

A : 0

B : 18

C : 36

D : 52

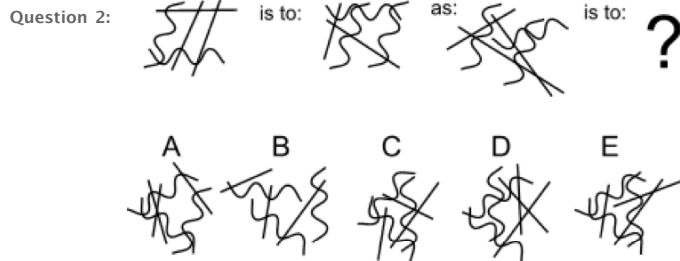
E : 256

F : 412

G : 666

You answered: C.

The correct answer was A : 0. Each number is generated by multiplying together the separate digits from the number in the box above, so the column above the answer goes like this: **997**,  $9 \times 9 \times 7 = 567$ ,  $5 \times 6 \times 7 = 210$ ,  $2 \times 1 \times 0 = 0$



X : Don't know

A : A

B : B

C : C

D : D

E : E

You answered: E.

The correct answer was E. The wavy lines have been swapped for straight lines and the straight lines for wavy ones, in the same relative positions crossing each other.



Question 3: Two people, starting at the same place walk in opposite directions for 4 meters, turn left and walk another 3 meters. Which of these answers is closest to the distance between them?

X : Don't know

A : 2

B : 2.5

C : 6

D : 9

E : 9.5

F : 10

G : 10.5

H : 12.5

I : 14

You answered: C.

**Kredytów: 0** · Zdobądź więcej

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The correct answer was **F : 10**. Each man has walked two sides of a triangle in an opposite direction to the other man (they both turn to THEIR left so are still facing in opposite directions after the turn). To work out the length of the hypotenuse (the longest side of a triangle with a right angle corner opposite) we use pythagoras theorem – the length of the longest side is the square root of the sum of the squares of the two sides.  $3 \times 3 + 4 \times 4 = 25$ . The square root of 25 is 5 ( $5 \times 5 = 25$ ) so each man is 5 metres from the starting point in opposite directions, double this to find the distance between the men is 10 metres.



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Question 4: If you rearrange the letters **MANGERY**, which of the following categories does it best fit into?

- X : Don't know
- A : Country
- B : City
- C : Animal
- D : Plant
- E : Ocean
- F : Furniture
- G : Garden
- H : Conflict

**You answered: A.**

The correct answer was **A :Country**. **MANGERY** is an anagram of **GERMANY** which is a country.



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Question 5: Carlos has a box of apples. He eats one apple, then gives half the remaining apples to Pete. Carlos then eats another apple and gives half the apples he has left to Sheila. There are five apples left in the box at the end. How many apples were in the box at the start?

- X : Don't know
- A : 10
- B : 11
- C : 13
- D : 16
- E : 19
- F : 21
- G : 22
- H : 23
- I : 25
- J : 29
- K : 31

**You answered: H.**

The correct answer was **H : 23**. Work backwards through the question. Double the number of apples  $5 \times 2 = 10$ . Add one  $10 + 1 = 11$ . Double the number of apples  $11 \times 2 = 22$ . Add one  $22 + 1 = 23$



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Question 6: Your building company is working on two sites – a house and a shop. The company employs three people – Sam the bricklayer, Monica the electrician and a plumber called Abdul. Only one employee works on each site at a time. All of the employees work on both sites at some point during the week. The bricklayer is the only one who works four days a week. Everyone takes Saturday and Sunday off. Abdul works for a different company on Tuesdays and Wednesdays. The shop is too far from the house for an employee to work at both sites on the same day. Sam only works on the house on Mondays, Tuesdays or Wednesdays. Monica takes four day long weekends. **What type of work can you get done on the house on Friday?**

- X : Don't know
  - A : Bricklaying
  - B : Plumbing
  - C : Electrical
  - D : Nothing
  - E : Any type
  - F : There is not enough information in the question
- You answered: B.**

The correct answer was **B : Plumbing**. We can rule out bricklaying because the bricklayer only works on the house Mon, Tue and Wed. Because Abdul the plumber works elsewhere on Tuesdays, the bricklayer and the electrician must both be working on Tuesdays. We know the electrician takes four day weekends and we know she IS working on Tuesday, so she can't be working on Friday or her weekend would be too short. That leaves Abdul the plumber as the only one left who is available on Fridays.



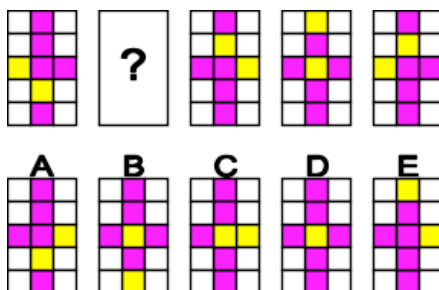
Question 7: If the day before yesterday is one hundred and twenty hours before Wednesday, What day is today?

X : Don't know  
A : Monday  
B : Tuesday  
C : Wednesday  
D : Thursday  
E : Friday  
F : Saturday  
G : Sunday  
You answered: .

The correct answer was **G: Sunday**. 120 hours is five days, so the day before yesterday is Friday (5 before Wed). That makes today Sunday (2 days after Fri)



Question 8:



X : >Don't know  
A : A  
B : B  
C : C  
D : D  
E : E  
You answered: .

The correct answer was **D**. One yellow square bounces back and forth horizontally one square at a time across the middle row. A second yellow square bounces up and down the middle column one square at a time. In the missing step, BOTH yellow squares are in the middle.



Question 9:

The price of 144 turnips is ~~1347~~ groats

The smallest denomination in this currency is one whole groat. Two digits in this note have been smudged. Which of the following choices is nearest to the price in groats of one turnip?

X : Don't know  
A : 40  
B : 60  
C : 80  
D : 100  
E : 120  
F : 140  
G : 160  
H : 180  
I : 200  
J : 220  
K : 240  
You answered: H.

The correct answer was **G : 160**.

This is a particularly difficult mathematical question requiring good knowledge of your multiplication tables and rules so there are bonus points for this. First we need to work out what the smudged digits are:

We know that the price of one turnip is an integer amount from the hint that one groat is the smallest unit of currency, so the total figure must be divisible by 144 (the number of turnips). It must therefore also be divisible by any number by which 144 is divisible. 144 is divisible by 8 ( $8 \times 18 = 144$ ). The last three digits of any number which is divisible by 8 are also divisible by 8 (Because 1000 is divisible by 8). We know the last three digits are something in the range 470 to 479. The only number in this range divisible by 8 is 472, therefore

the last digit is 2.  
 Now to work out the first smudged digit: 144 is also divisible by nine ( $16 \times 9 = 144$ ). There is a rule that the sum of all the digits in any number which is divisible by nine is also always divisible by nine. The sum of the last four digits is  $3 + 4 + 7 + 2 = 16$  so the sum of all five digits is in the range 16 to 25. The only number in this range divisible by 9 is 18.  $18 - 16 = 2$ , so the first digit is a 2. The total price is therefore 23472 groats. Divide it by 144 = 163 groats per turnip, so the closest answer on the list is 160. Anyone who got this right is either a mathematical genius, a lucky guess or a cheat! If you think you found an easier way to the solution, please send it in to the email address on the help page.



**Question 10:** Anneka buys jackets wholesale for 50 groats each and sells them in her shop for 100 groats each .  
 One day, a customer comes in and buys one jacket using a 200 groat gift voucher. She doesn't have enough cash in the till to give the customer change, so she goes to the shop next door and exchanges the voucher for 200 groats cash. Anneka then gives the customer the jacket and 100 groats cash as change.

The next day the owner of the shop next door comes in and complains that the voucher is a fake, so she gives him 200 s cash and takes the voucher back.

**How many groats has Anneka lost?** (Assume she has no insurance, there are no other expenses and the customer is not caught)

- X : Don't know  
 A : 0  
 B : 50  
 C : 100  
 D : 150  
 E : 200  
 F : 250  
 G : 300  
 H : 350  
 I : 400  
 J : 450  
 K : 500

**You answered: .**

The correct answer was **D : 150**. First lets ignore the voucher completely, it was a fake so it had no value and it doesn't matter who gave it to who. Second, lets ignore the shopkeeper next door - he gave Anneka some money but then she gave the same amount back again. After ignoring all that, the only action left is: Anneka gave the customer one jacket and 100 groats. The jacket cost Anneka 50 groats to buy, so she has lost  $100 + 50 = 150$  groats in total.



**Question 11:**

Will fold up into which of the following cubes?



- X : Don't know  
 A : A  
 B : B  
 C : C  
 D : D  
 E : E

**You answered: B.**

The correct answer was **E**. E is the only cube shown which it is possible to make by folding the shape given.



**Question 12:** You meet three people called Vlad, Jeremy and Bushra. You know that one of them is always honest and one of them always lies.  
 Vlad says: "Jeremy always responds with rectitude".  
 Jeremy says: "I do not respond in a homogeneous manner".

Bushra says "Jeremy is always perfidious"  
. Which of them are telling the truth and which are lying?

- X : Don't know  
A : Vlad:Truth, Jeremy:Lie, Bushra:Truth  
B : Vlad:Truth, Jeremy:Lie, Bushra:Lie  
C : Vlad:Lie, Jeremy:Truth, Bushra:Lie  
D : Vlad:Lie, Jeremy:Lie, Bushra:Truth  
E : Vlad:Truth, Jeremy:Truth, Bushra:Lie  
F : Vlad:Lie, Jeremy:Truth, Bushra:Truth

You answered: C.

The correct answer was **D : Vlad:Lie, Jeremy:Lie, Bushra:Truth**  
Rectitude means honesty  
Perfidious means dishonest.  
Homogeneous means always the same.  
We know Vlad is lying because he says Jeremy is always truthful, but if Jeremy was *always* truthful he would have to say he *does* repond in a homogenous manner. We now know neither Vlad nor Jeremy is always truthful so by elimination Bushra must be the one who is always truthful, therefore her statement that Jeremy always lies must be true.



Question 13:

9	27	6
18	45	?
6	21	7

Which of the following is the missing number?

- X : Don't know  
A : 0  
B : 1  
C : 3  
D : 5  
E : 7  
E : 9  
E : 12  
F : 14  
G : 21  
H : 27  
I : 36  
J : 81

You answered: K.

The correct answer was **D : 5**. The number in the right column is derived by taking the number in the middle column, doubling it, then dividing by the number in the left column. For example  $27 \times 2 = 54$   
 $54 / 9 = 6$ . Therefore the solution is  $45 \times 2 = 90$ ,  $90 / 18 = 5$



Question 14: Which of these is the odd one out?

- X : Don't know  
A : 571219  
B : 841216  
C : 791615  
D : 471118  
E : 781523  
F : 471118

You answered: F.

The correct answer was **C : 791615**. Understanding these numbers involves inserting gaps in the right places. The first number 571219 is derived from the sequence 5, 7, 12, 19. ( $5+7=12$ ,  $7+12=19$ ). All the other numbers follow the same pattern, except 791615, where the last two digits should be 25 instead of 15 ( $7+9=16$ ,  $9+16=25$ ). Lots of people say 471118 is the odd one out because there are two of it, but it can't be the odd one out precisely because there is another number exactly the same. If we had asked for the odd two out you'd be on to something!



Question 15:



X : Don't know  
B : B  
D : D  
E : E  
G : G  
H : H  
I : I  
J : J  
K : K  
L : L  
M : M  
N : N  
P : P  
R : R  
S : S  
U : U  
Z : Z

**You answered: U.**

The correct answer was J. Starting from A, and moving round the circle two segments at a time, the sequence runs:  $+1=A$ ,  $A+2=C$ ,  $C+3=F$ ,  $F+4=J$ ,  $J+5=O$

