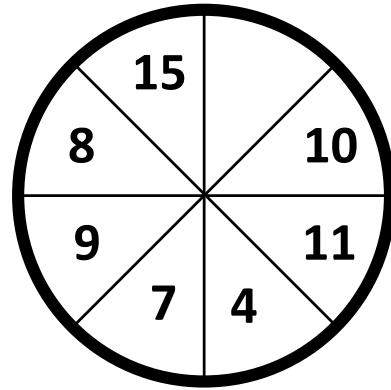


# Lucky Dip

Now that you have made it to the end, here are a variety of logic puzzles that will require many of the techniques and observational skills that you have practised up to this point. Good luck!

1

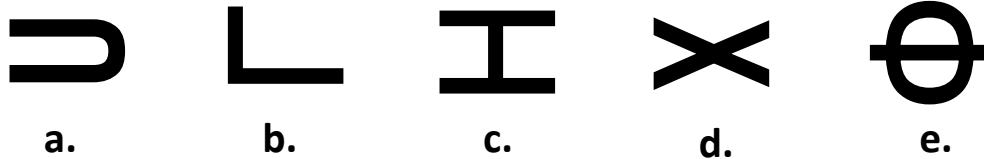
Look carefully at the wheel to the right.  
Determine the missing number.



2

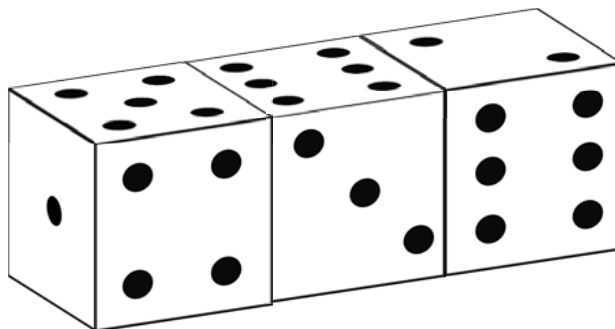


What is the missing figure in the above sequence?



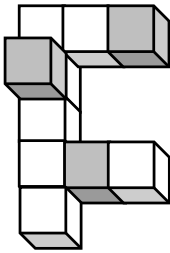
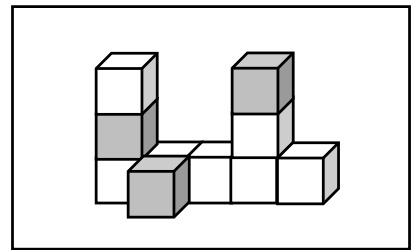
3

What is the sum of the values of the 11 hidden sides of the three dice as shown below? (Hint: The total number of dots on a single die is 21)

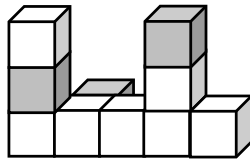


4

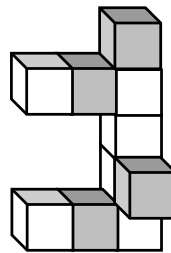
Try to identify which of the models below is exactly the same as the model to the right



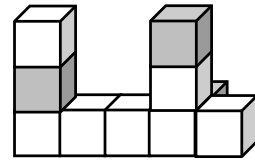
a



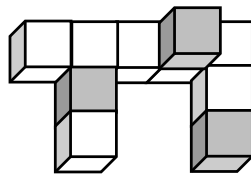
b



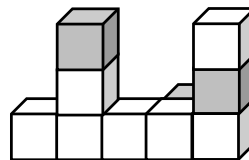
c



d



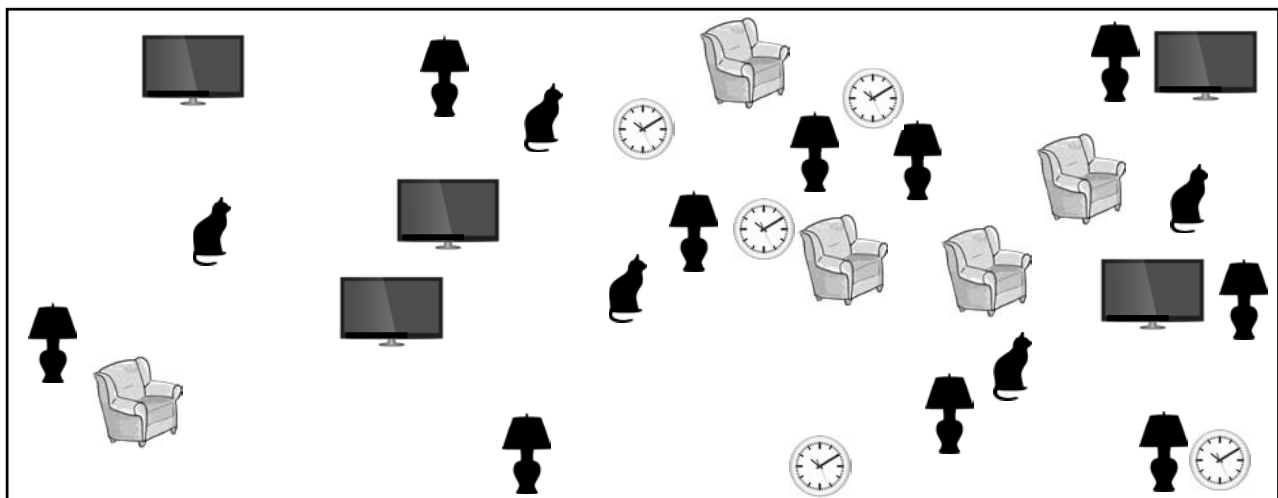
e



f

5

Using only three straight lines, can you divide the picture below into five sections, which each contain one chair, one big screen TV, a clock, two lamps, and a cat.



6

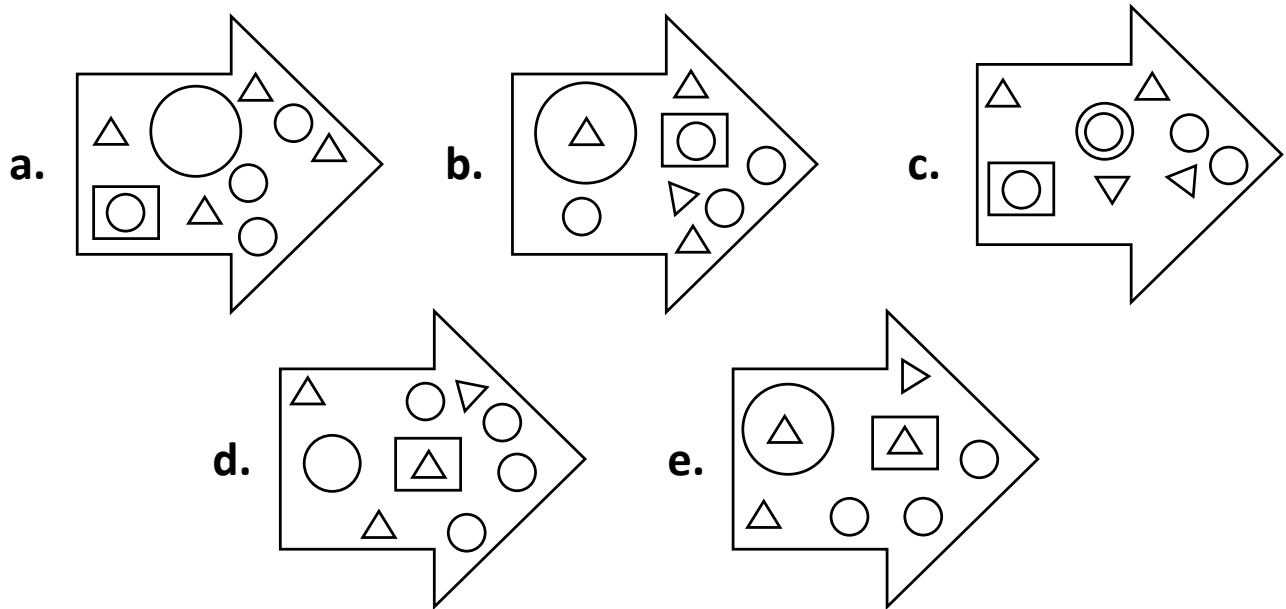
A friend is holding two pound notes in his right hand behind his back. He tells you that they total £15, yet one of them cannot be a ten pound note.

What could the notes he is holding possibly be?

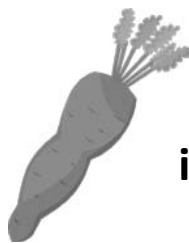


7

Which one of the below does not belong to the group?



8



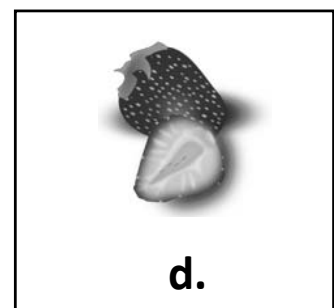
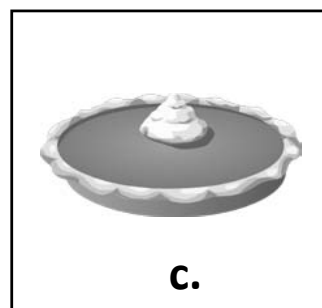
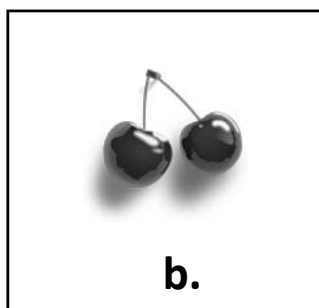
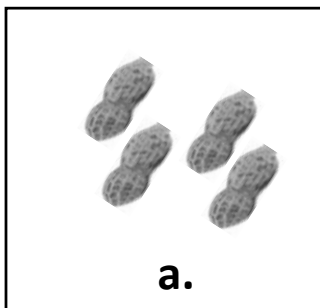
is to



as

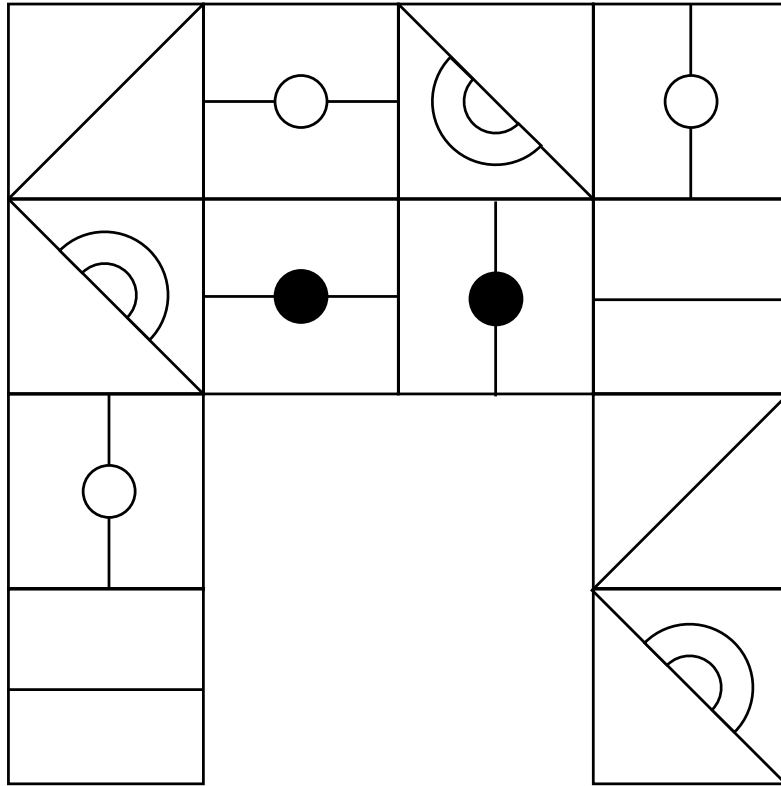


is to:

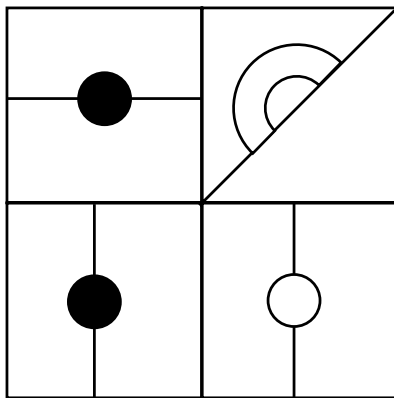


9

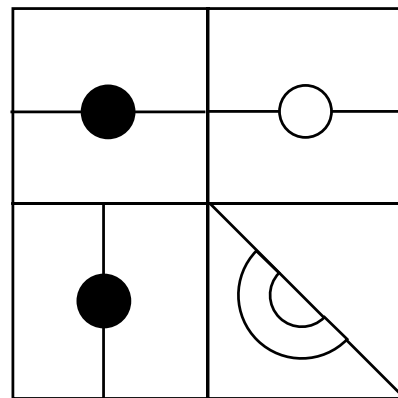
Identify the mission section from the grid below:



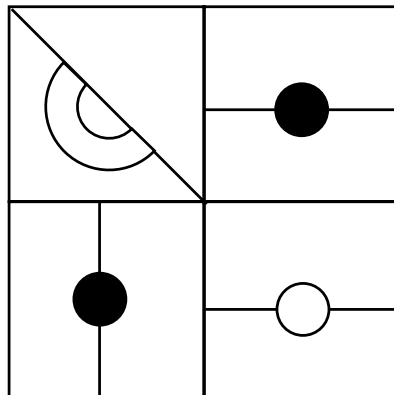
a.



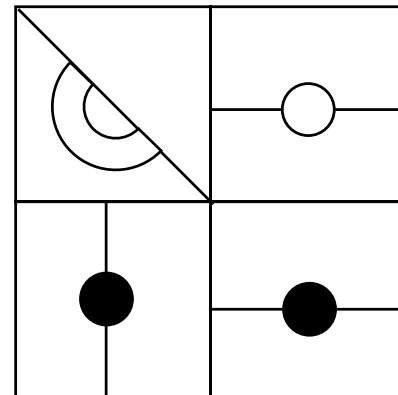
b.



c.



d.



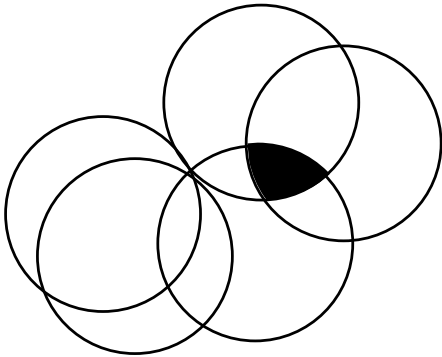
**10**

Which of these is the odd one out?

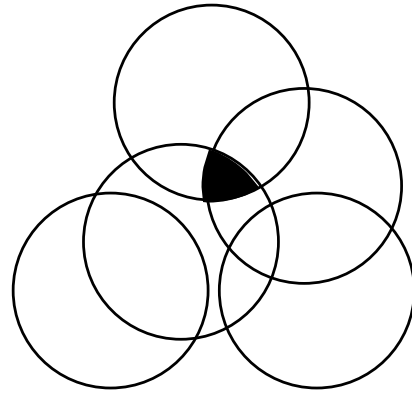
BDF  
TVX  
HJK  
OQS  
UWY

**11**

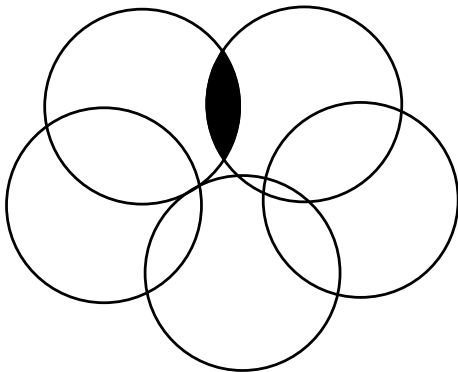
Which of the following is the odd one out?



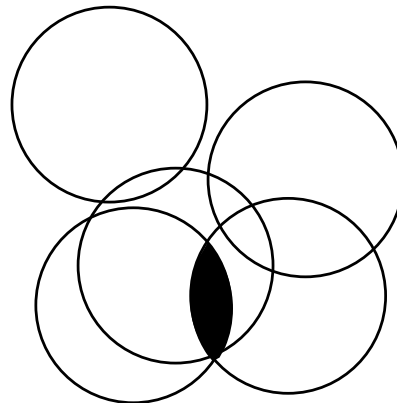
**a.**



**b.**



**c.**



**d.**

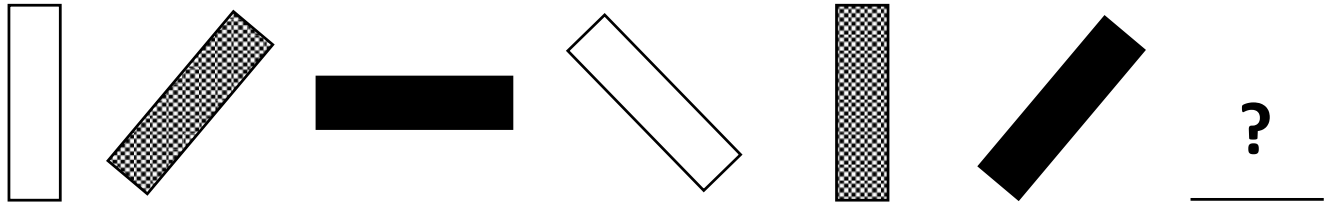
**12**

During a school trip, a total of 42 people went to the Natural History Museum in London. If there were twice as many girls as boys, and twice as many boys as teachers, then how many teachers were there in the group?



**13**

What comes next in this sequence?



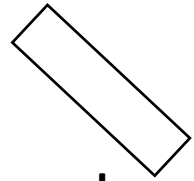
**a.**



**b.**



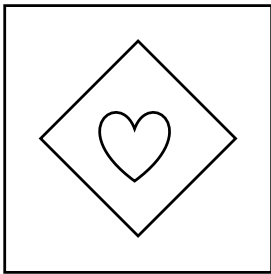
**c.**



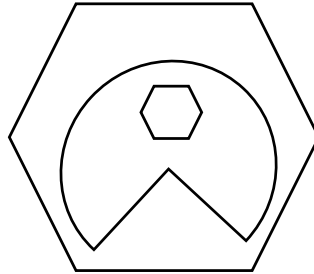
**d.**

**14**

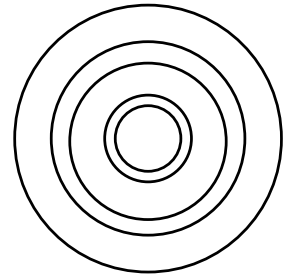
Which of the following is the odd one out?



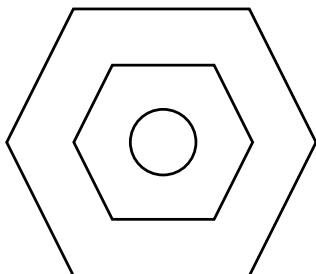
**a.**



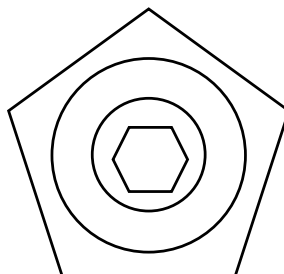
**b.**



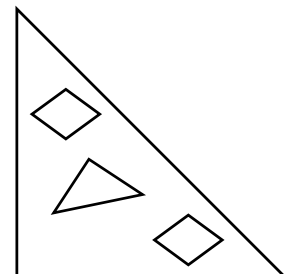
**c.**



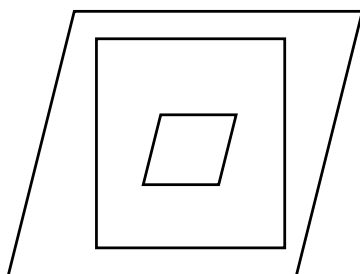
**d.**



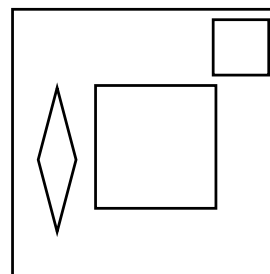
**e.**



**f.**



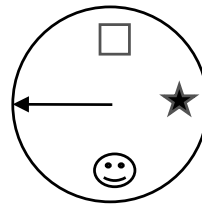
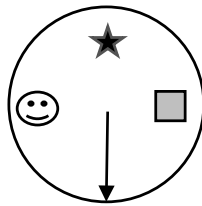
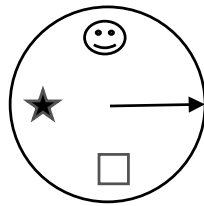
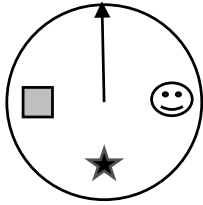
**g.**



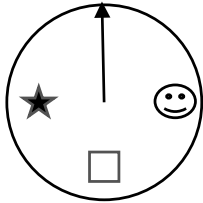
**h.**

15

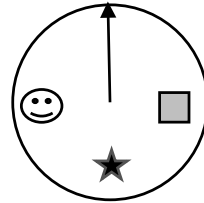
What comes next in this sequence?



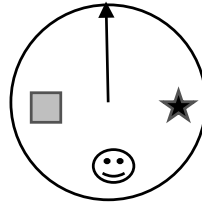
?



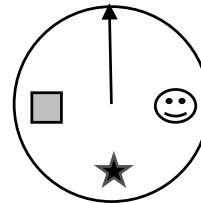
a.



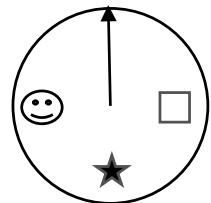
b.



c.



d.



e.

16

Can you figure out the pattern below and fill in the last equation?

$$3 + 5 = 28$$

$$4 + 9 = 513$$

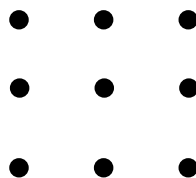
$$2 + 6 = 48$$

$$6 + 8 = 214$$

$$1 + 3 = \underline{\hspace{2cm}}$$

17

Can you connect all nine dots below, using only four lines? You should not lift your pen/pencil off the paper



## Finding the truth in the forest

Congratulations, you have made it to the final question!

To get to the final answer, you have to make a trip to the enchanted forest, and meet with a talking squirrel and a rabbit. Both animals are known to tell lies and you have to make sure you use your logical powers to determine who is being honest, or you will be stuck in the forest!

The squirrel only tells lies on Monday, Tuesday, and Wednesday. On the other days, he only tells the truth. The rabbit only tells lies on Thursday, Friday, and Saturday. On the other days, he only tells the truth.

The problem is, once you are in the forest you become disoriented and forget what day of the week it is.

Finally you meet the squirrel and the rabbit.

The squirrel announces, “Yesterday I told a lie.”

The rabbit replies, “Yesterday I told a lie too.”

Which one is telling the truth?

