

1. Find the next term in series ? 17 14 14 11 11 8 8

A.8 5 B.5 2 C.8 2 D.5 5

Answer: D

Explanation:

In this simple subtraction with repetition series, each number is repeated, then 3 is subtracted to give the next number, which is then repeated, and so on.

2. A rainy day occurs once in every 10 days. Half of the rainy days produce rainbows. What percent of all the days do not produce rainbow ?

A.95% B.10% C.50% D.5%

Answer: A

Explanation:

Two rainy days occur in 10 days. So, rainbow will occur once in 10 days. Rest 9 days will have not rainbow. % of not producing rainbows = $\frac{9}{10} \times 100 = 90\%$

3. If 5 spiders can catch five flies in five minutes. How many flies can hundred spiders catch in 100 minutes ?

A.100 B.1000 C.500 D.2000

Answer: D

Explanation:

One spider catches one fly in 5 minutes. 100 spider catches 100 fly in 5 minutes. In 100 minutes $100 \times 20 = 2000$ flies will be caught.

4. DIRECTIONS for Questions 4 and 7

Answer the questions on the basis of the information given below. In a local pet store, seven puppies wait to be introduced to their new owners. The puppies, named Ashlen, Blakely, Custard, Daffy, Earl, Fala and Gabino, are all kept in two available pens. Pen 1 holds three puppies, and pen 2 holds four puppies. If Gabino is kept in pen 1, then Daffy is not kept in pen 2. If Daffy is not kept in pen 2, then Gabino is kept in pen 1. If Ashlen is kept in pen 2, then Blakely is not kept in pen 2. If

Blakely is kept in pen 1, then Ashlen is not kept in pen 1. Which of the following groups of puppies could be in pen 2?

- A. Gabino, Daffy, Custard, Earl. B. Blakely, Gabino, Ashlen, Daffy C. Ashlen, Gabino, Earl, Custard
D. Blakely, Custard, Earl, Fala.

Answer: C

Explanation:

Consider option A: If Gabino, Daffy, Custard and Earl are in pen 2, then Ashlen and Blakely will be in pen 1 which is not possible according to the last

condition given. Therefore Option 1 is not correct. Consider option B: According to condition 3 both Ashlen and Blakely cannot be in pen 2 together.

Therefore Option 2 is not correct. Consider option C: In the second condition it is given that if Daffy is not kept in pen 2 then Gabino is kept in pen 1.

5. If Earl shares a pen with Fala, then which of the following MUST be true ?

- A. Gabino is in pen 1 with Daffy. B. Custard is in pen 2. C. Blakely is in pen 2 and Fala is in pen 1.
D. Earl is in pen 1.

Answer: B

Explanation:

If Earl shares a pen with Fala, then Earl and Fala can both be either in pen 1 or in pen 2, Now, if Earl and Fala both are in pen 1 then one of Ashlen

and Blakely have to be in pen 2 as they both cannot be together in one pen. Therefore Custard has to be in pen 2. If Earl and Fala both are

in pen 2 then also one of Ashlen and Blakely have to be in pen 2. Then Gabino and Daffy will be in pen 1 with one of Ashlen and Blakely.

Therefore Custard will be in pen 2. Therefore In both the cases Custard will be in pen 2.

6. If Earl and Fala are in different pens, then which of the following must NOT be true ?

A. Gabino shares a pen with Ashlen.

B. Earl is in a higher-numbered pen than Blakely.

C. Blakely shares pen 2 with Earl and Daffy.

D. Custard is in a higher-numbered pen than Fala.

Answer: D

Explanation:

If Earl and Fala both are in different pens then there are two cases possible Case (i): Earl is in pen 1 and Fala in pen 2.

Case (ii): Fala is in pen 1 and Earl is in pen 2. Case (i) Earl is in pen 1 and Fala is in pen 2. Gabino and Daffy have to be together

in one pen and they cannot be in pen 1 as one of Ashlen and Blakely have to be in pen 1 and pen 1 can hold 3 puppies.

Therefore Gabino and Daffy will be in pen 2, and Custard has to be in pen 1. Pen 1 will have Earl, Custard and one of Ashlen and Blakely.

Pen 2 will have Fala, Gabino, Daffy and one of Ashlen and Blakely. Custard has to be in pen 1. Custard cannot be in a higher-numbered pen than Fala.

Similarly in Case (ii) Fala will be in pen 1 but Custard will also be in pen 1. Custard cannot be in a higher-numbered pen than Fala.

7. The function $f(x) = |x - 2| + |2.5 - x| + |3.6 - x|$, where x is a real number, attains a minimum at:-

A. $x = 2.3$ B. $x = 2.5$ C. $x = 2.7$ D. none of the above.

Answer: B

Explanation:

Case 1: If $x < 2$, then $y = 2 - x + 2.5 - x + 3.6 - x = 8.1 - 3x$. This will be least if x is highest i.e. just less than 2. In this case y will be just

more than 2.1 Case 2: If 2

