Renert Rabbit

SOLUTIONS

Part A (4 points each)

1. How many cats are in the picture?

(A) 20   (B) 2   (C) 1   **(D) 7**   (E) 6

2. Which animals are exactly 3 steps from each other?
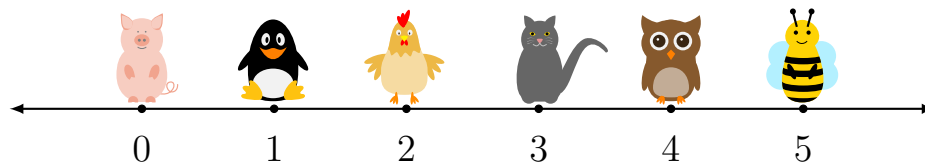
(A) and

(B) and

(C) **and**

(D) and

(E) and

3. What is $23 - 3 - 20 + 2 + 3$?

   (A) 25   (B) 0   **(C) 5**   (D) 1   (E) 23

4. How many squares of any size are there?
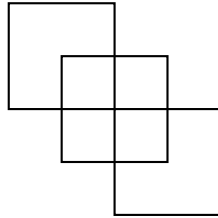
   (A) 11   (B) 3   **(C) 7**   (D) 6   (E) 9

5. Chase has a piece of paper with a star on it. He cuts the paper along the **blue** lines. What shape is the piece of paper that the star is on now?
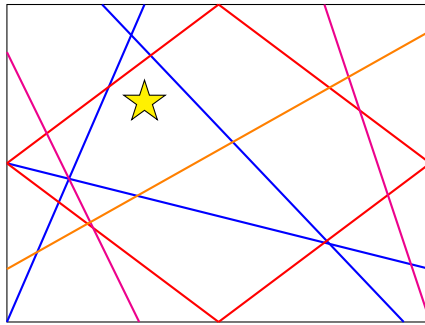
   (A) square   **(B) triangle**   (C) rectangle   (D) rhombus   (E) pentagon

6. Which pair of shapes complete the missing part of the following pattern?

   (A) ★ ●   **(B)** ■ ★   (C) ★ ★   (D) ● ■   (E) ★ ■

Part B (5 points each)

7. Aahil the rabbit is running along the path below:
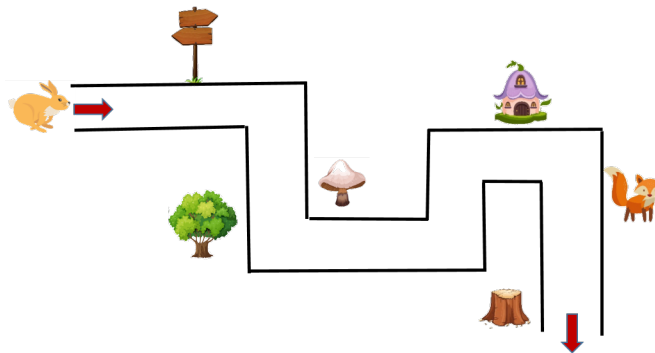
Which of the following does Aahil see on his right?

(A)   (B)   **(C)**   (D)   (E)

8. Each red flower petal costs $2 and each green leaf costs $1. How much does this flower cost?
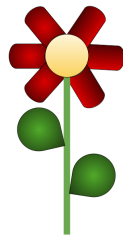
(A) $14   (B) $8   (C) $9   (D) $3   (E) $12

9. The picture shows the height of four children. Which one of the following statements is correct?

Arthur
1m 45cm

Breanna
1m 42cm

Cyrus
1m 33cm
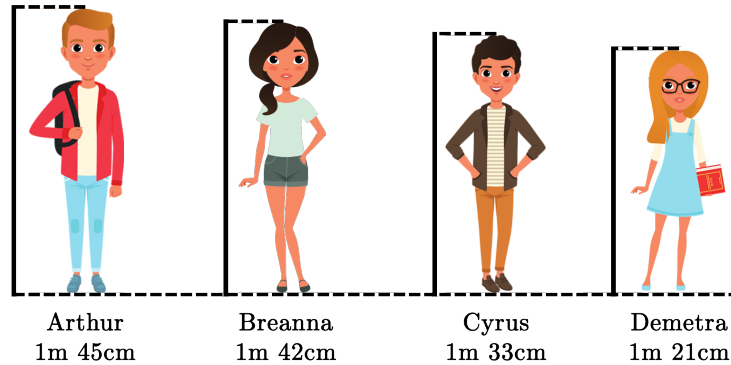
Demetra
1m 21cm

(A) Arthur is 15 cm taller than Cyrus.

(B) Demetra is 20 cm shorter than Breanna.

(C) Cyrus is 2 cm taller than Demetra.

(D) Arthur is 21 cm taller than Cyrus.

(E) Cyrus is 9 cm shorter than Breanna.

10. Jade thought about a number and doubled it. She then took 7 away from the new number. The answer she got was 29. What was the first number Jade thought about?
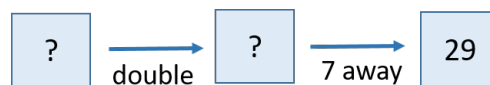
(A) 72   (B) 11   (C) 44   (D) 16   **(E) 18**

11. Audvik has 8 cards:

5	7	8	10
11	12	13	14

He wants to put his cards in 3 envelopes according to these rules:

Even numbers less than 10	Odd numbers	Multiples of 3
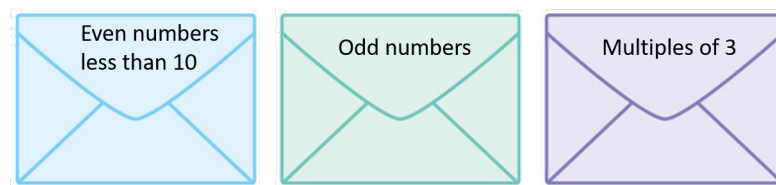
Which cards are left out?

(A) $5, 10$ (B) $10, 12$ **(C)** $10, 14$ (D) $12, 14$ (E) $7, 14$

12. Ms. Marina has a vegetable garden with 8 carrots and 6 potatoes. Renert Rabbit comes and eats 9 of these vegetables. If there were 2 potatoes left, how many carrots did Renert Rabbit eat?

(A) 12   (B) 4   (C) 21   (D) 8   **(E) 5**

Part C (6 points each)

13. Adora built the object below out of small orange blocks.

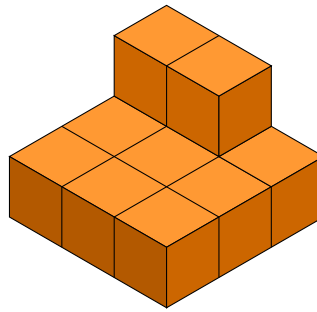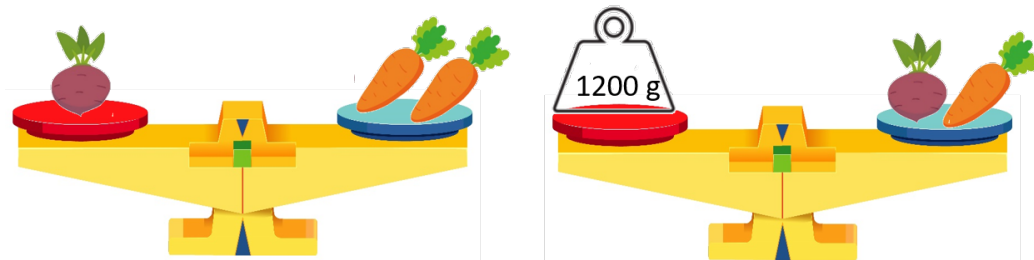How many more orange blocks does Adora need to make a $3 \times 3 \times 3$ orange cube?

(A) 27   (B) 11   (C) 7   **(D) 16**   (E) 9

14. The two scales compare the weight of beets and carrots. What is the weight of one beet?

(A) 600 g   (B) 400 g   (C) 2400 g   **(D) 1200 g**   (E) 800 g

15. On the board below, Sylvia the squirrel travels from number 5 at the top left corner of the grid to the number 7 at the bottom right corner. She must follow some rules:

   - move one step up, down, left or right (not diagonal);

   - move only to a number that is one more or one less than the number she is standing on.

Start →

5	2	8	6	6
6	7	2	5	1
4	6	1	3	2
4	5	7	5	6
3	2	3	4	7

Which of the following is a number that Sylvia never visits?

(A) 1   (B) 2   (C) 3   (D) 5   (E) 7

16. Tuoli was playing with blocks that he received for his birthday. He made two shapes and placed the green shape on top of the orange shape so that A and B on both shapes end up in the same spot. Which shape did he get?

(A)

(B)

(C)

(D)

(E)