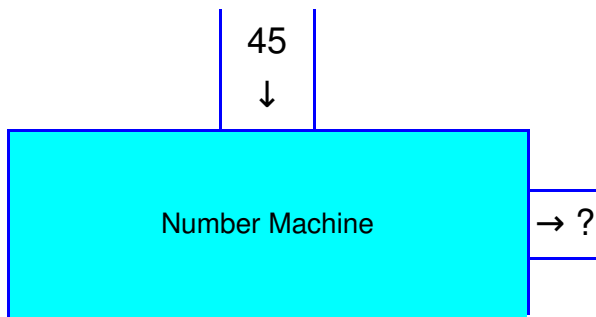


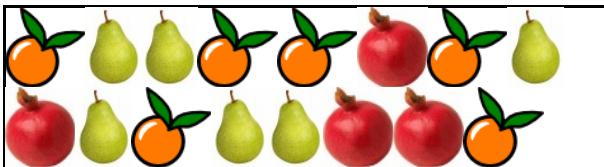
Answer the questions

- (1) When a number is put into the machine below, a different number comes out. If 10 goes in, 2 comes out. If 15 goes in, 3 comes out. If 40 goes in, 8 comes out.

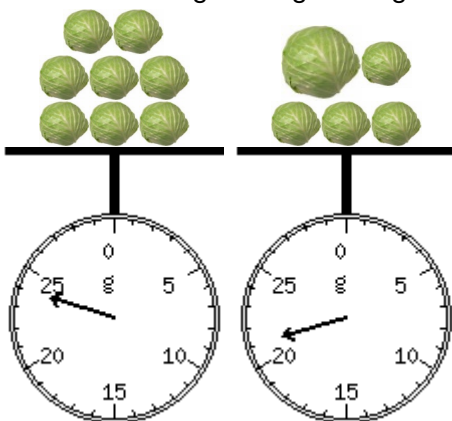


If 45 goes in, what number should come out?

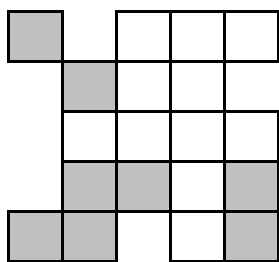
- (2) In a community, two neighbours have rectangular backyards having the same area of 1040 sq. meter. If the width of first backyard is 8 meter and the width of second backyard is 40 meter, find which backyard will require more fencing and by how much?
- (3) The following figure shows different fruits in a basket. What fraction of the fruits are pears?



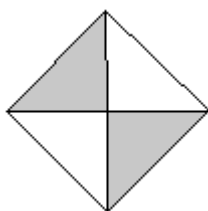
- (4) What is the weight of big cabbage?



- (5) What fraction of the image is shaded?



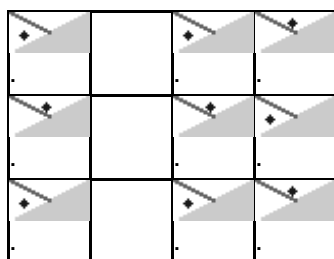
- (6) Jacob has 9 pairs of red socks and 4 pairs of green socks. All the socks are in a bag. If Jacob picks the socks without looking at them, how many socks he has to remove from the bag before he can be sure that he has a pair of a single color?
- (7) What fraction of the following image is shaded?



- (8) After buying 3 pens for \$7 each, Emily is left with \$2. How much amount did she have at first?
- (9) In a clock, the hour hand is pointing between digits 5 and 6, and the minute hand is pointing at 9. What is the current time?
- (10) Find the predecessor of the smallest 4 digit number.

Choose correct answer(s) from the given choices

- (11) Samuel arranges tiles on the floor as shown below. Which column of tiles is missing from Samuel's floor?



a.



b.



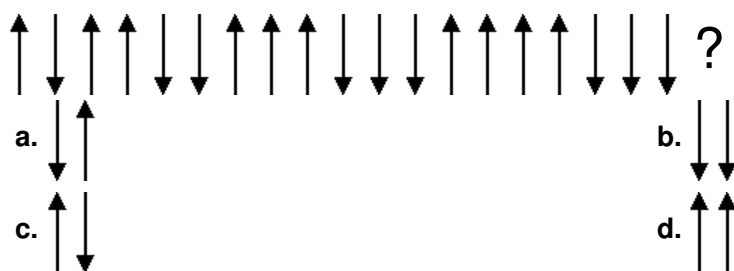
c.



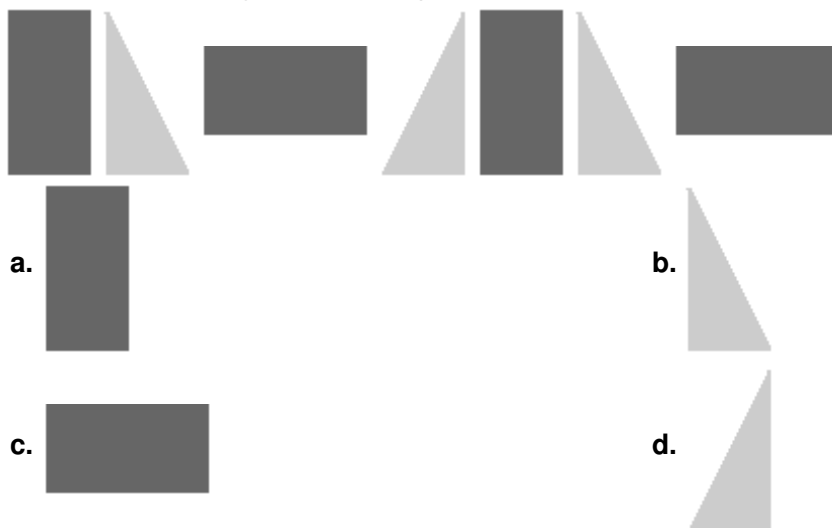
d.



(12) Complete the pattern:



(13) Which is the next figure in the sequence shown below?



(14) Which rule can be used to explain this number pattern?

1, 4, 13, 40, 121, 364, 1093,

- a. Multiply by 3 and subtract 1
- b. Multiply by 1, then multiply by 2, then multiply by 3, and so on
- c. Multiply by 3 and add 1
- d. Add 0, then add 1, then add 2, and so on

(15) Gene Golub was born on 29th February. His birthday comes:

- a. every year
- b. once every four years
- c. after every two years
- d. twice in a year



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Answers

(1) 9

(2) First, more by 144 meter

(3) $\frac{6}{16}$

(4) 9 g

(5) $\frac{8}{19}$

(6) 3

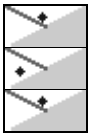
(7) $\frac{2}{4}$


(8) 23

(9) 05:45 hours

(10) 999

(11) a.



(12) a. 

(13) d.



(14) c. Multiply by 3 and add 1

(15) b. once every four years