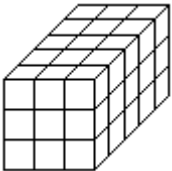
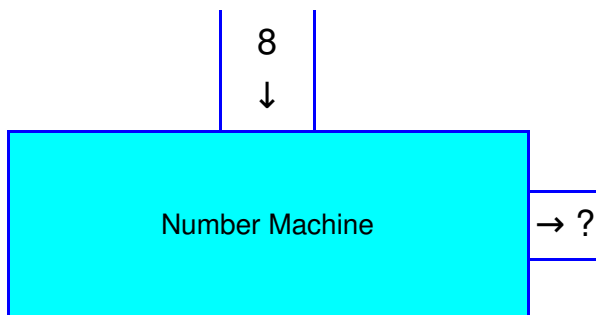


Answer the questions

- (1) Following shape is made of several small cubes. What fraction of cubes are not visible in the picture shown below?

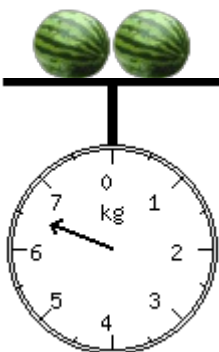


- (2) When a number is put into the machine below, a different number comes out. If 3 goes in, 9 comes out. If 4 goes in, 10 comes out. If 5 goes in, 11 comes out.



If 8 goes in, what number should come out?

- (3) If the weight of the two watermelons is the same, what is the weight of one watermelon (write in mixed fraction) ?

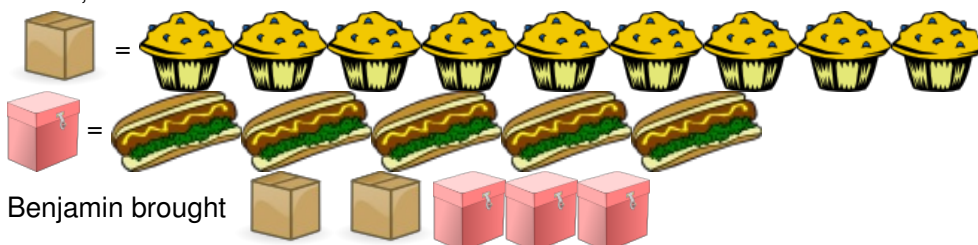


- (4) If sum of both the horizontal and the vertical row is same, find the missing value.

	9	
	23	
	2	3
	23	23
	2	
	23	

- (5) Lillian has 9 pairs of white socks and 4 pairs of red socks. All the socks are in a bag. If Lillian picks the socks without looking at them, how many socks she has to remove from the bag before she can be sure that she has a pair of a single color?

- (6) Given,



How many more muffins than sandwiches did he buy ?

- (7) Fill in the empty boxes.

A) $\square 7 \square 1 9 2$ B)

$$\begin{array}{r}
 67 \\
 63\square 0 \\
 662\square 45 \\
 + \square 6660557 \\
 \hline
 7\square 3\square 272\square
 \end{array}$$

5 4 0 6 C)

$$\begin{array}{r}
 64\square 209 \\
 250 \\
 85019\square \\
 + 5\square 326\square 70 \\
 \hline
 \square 3\square\square 66\square 7
 \end{array}$$

$\square 1 8 \square 2 3$

$$\begin{array}{r}
 39\square 0 \\
 \square 1165 \\
 2\square 716 \\
 + 2\square 78283\square \\
 \hline
 \square 0681348
 \end{array}$$

D) $\square\square 3 0$ E)

$$\begin{array}{r}
 1697 \\
 89\square \\
 90\square 6 \\
 + \square 5\square 01776 \\
 \hline
 6\square 2\square 2508
 \end{array}$$

2 3 0 4 6 2 F)

$$\begin{array}{r}
 \square 88 \\
 8\square 4 \\
 35402 \\
 + 4\square 86\square 65\square \\
 \hline
 \square 4\square\square 8796
 \end{array}$$

8 9 7 1 6 3

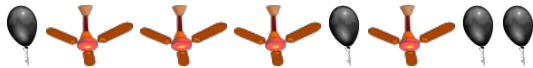
$$\begin{array}{r}
 8\square 2\square 6 \\
 62\square 3\square \\
 12762 \\
 + 21\square\square 3528 \\
 \hline
 \square\square 128445
 \end{array}$$

- (8) What fraction of the following letters can not be drawn using only straight lines?

L C R E Y B Z G V S O

Choose correct answer(s) from the given choices

- (9) Which pattern of letters matches with this figure pattern ?



a. B F B F B F B B

b. F F F F B F B B

c. B F F F B F B B

d. B B F F B F B B

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

1, 5, 21, 85, 341, 1365, 5461,

a. Add 0, then add 1, then add 2, and so on

b. Multiply by 1, then multiply by 2, then multiply by 3, and so on

c. Multiply by 4 and subtract 1

d. Multiply by 4 and add 1

- (11) Which pair of numbers can complete this condition?

$$\boxed{} \times 10000 = \boxed{}$$

a.

 $\boxed{504}$ and $\boxed{540000}$

b.

 $\boxed{54}$ and $\boxed{540000}$

c.

 $\boxed{540}$ and $\boxed{500004}$

d.

 $\boxed{54}$ and $\boxed{54000}$

- (12) Which of the following statements is true.

Statement 1: All rectangles are squares.

Statement 2: All squares are rectangles.

a. Only statement 2

b. Statements 1 and 2

c. Only statement 1

d. None of these

- (13) Which of following has the greatest value?

a. $(4 \times 100,000) + (7 \times 100)$ b. $(5 \times 100,000) + (7 \times 100) + (4 \times 10)$ c. $(5 \times 100,000) + (6 \times 100) + (4 \times 10)$ d. $(4 \times 100,000) + (6 \times 100)$

- (14) Emma solved the problem as shown below. Which expression could be used to check her result?

$$\begin{array}{r} 141 \\ 17 \overline{)2399} \\ \text{Remainder: } 2 \end{array}$$

a. $(141 \div 2) + 17$ b. $(17 + 141) \times 2$ c. $(141 \times 2) + 17$ d. $(17 \times 141) + 2$

Fill in the blanks

(15) In all, there are digits in whole number 900000 in the number system.



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Answers

(1) $\frac{16}{45}$

(2) 14

(3) $3\frac{1}{4}$ kg

(4) $\frac{8}{23}$

(5) 3

(6) 3

(7) A) $\begin{array}{r} 973192 \\ 67 \\ 6360 \\ 662545 \\ + 76660557 \\ \hline 78302721 \end{array}$

B) $\begin{array}{r} 5406 \\ 644209 \\ 250 \\ 850192 \\ + 52326570 \\ \hline 53826627 \end{array}$

C) $\begin{array}{r} 818723 \\ 3910 \\ 51165 \\ 24716 \\ + 29782834 \\ \hline 30681348 \end{array}$

D) $\begin{array}{r} 9130 \\ 1697 \\ 899 \\ 9006 \\ + 65201776 \\ \hline 65222508 \end{array}$

E) $\begin{array}{r} 230462 \\ 388 \\ 894 \\ 35402 \\ + 43861650 \\ \hline 44128796 \end{array}$

F) $\begin{array}{r} 897163 \\ 82256 \\ 62736 \\ 12762 \\ + 21073528 \\ \hline 22128445 \end{array}$

(8) $\frac{6}{11}$

(9) c. B F F F B F B B

(10) d. Multiply by 4 and add 1

(11) b. $\boxed{54}$ and $\boxed{540000}$

(12) a. Only statement 2

(13) b. $(5 \times 100,000) + (7 \times 100) + (4 \times 10)$

(14) d. $(17 \times 141) + 2$

(15) 6