

※ You can receive 1.5 points each for problems number 1 to 30.

In problems 1-6, solve each question.

1.

$$\begin{array}{r} 37 \\ \times 5 \\ \hline \end{array}$$

2.

$$\begin{array}{r} 76 \\ \times 4 \\ \hline \end{array}$$

3.

$$\begin{array}{r} 38 \\ \times 64 \\ \hline \end{array}$$

4.

$$\begin{array}{r} 78 \\ \times 32 \\ \hline \end{array}$$

5.

$$\begin{array}{r} 374 \\ \times 83 \\ \hline \end{array}$$

6.

$$\begin{array}{r} 733 \\ \times 526 \\ \hline \end{array}$$

In problems 7-23, solve each question.

Then add the quotient and the remainder. (For example, if the quotient is 5 and the remainder is 0, then write the final answer as $5 + 0 = 5$.)

7.

$$6 \overline{) 40}$$

8.

$$3 \overline{) 36}$$

9.

$$7 \overline{) 79}$$

10.

$$3 \overline{) 45}$$

11.

$$4 \overline{) 73}$$

12.

$$5 \overline{) 97}$$

13.

$$6 \overline{) 89}$$

16.

$$4 \overline{) 95}$$

14.

$$8 \overline{) 93}$$

17.

$$3 \overline{) 97}$$

15.

$$3 \overline{) 77}$$

18.

$$4 \overline{) 934}$$

19.

$$8 \overline{) 941}$$

20.

$$6 \overline{) 3272}$$

21.

$$28 \overline{) 523}$$

22.

$$17 \overline{) 637}$$

23.

$$42 \overline{) 975}$$

In problems 24-26, calculate the answer.

24. $5 + 6 \times 7 - 48 \div 8$

25. $84 - 17 \times 4 + 54 \div 9$

26. $78 \div (86 - (13 + 17) \times 2)$

In problems 27-28, solve each question as a mixed number in its simplest form. Then write the numerator. (For example, if the answer is $2\frac{13}{8}$, make $3\frac{5}{8}$ and write the final answer as 5.)

27. $5\frac{9}{13} + 2\frac{7}{13}$

28. $7\frac{2}{11} - 2\frac{8}{11}$

In problems 29-30, solve each question. Then write the decimal part as your answer. (For example, if the answer is 18.2 or 18.20, then write the final answer as 2. If the answer is 2.54 or 2.054, then write the final answer as 54.)

29.
$$\begin{array}{r} 4.37 \\ + 4.8 \\ \hline \end{array}$$

30.
$$\begin{array}{r} 9.5 \\ - 6.53 \\ \hline \end{array}$$

※ You can receive 2.0 points each for problems number 31 to 40.

- 31.** Peter had 32 candies. He ate 6 of these and gave 8 to his friends.
How many candies does Peter have left?

_____ candies

- 32.** The grocery store sells strawberries in packs. Each pack contains
18 strawberries. How many strawberries are in 4 packs?

_____ strawberries

- 33.** Smith does 24 push-ups every day. He did 31 days of push-ups
this month. How many push-ups did he do in total?

_____ push-ups

- 34.** Lisa has 5 boxes of blocks. Each box contains 512 blocks. She used 2500 blocks to build a castle. How many blocks are left in the boxes?

_____ blocks

- 35.** There are 36 boxes containing 108 balls each. How many balls in total are in the 36 boxes? Write the last 3 digits of the number. For example, if the answer is 1234, then write 234.

- 36.** Jessie has 96 sheets of colored paper. She is going to distribute these sheets to 8 students equally. How many sheets will each student have?

_____ sheets

- 37.** Jacob has 150 almonds and tries to put them into 12 bottles. He puts 12 almonds into each bottle. How many almonds will be left over?

_____ almonds

- 38.** 6 boys and 7 girls try to share 182 cookies equally. How many cookies can each person get?

_____ cookies

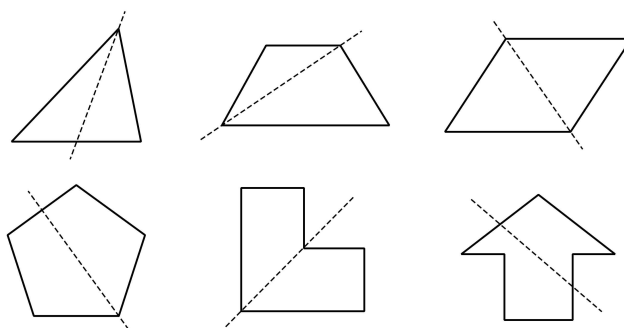
- 39.** Susan raises 35 hens on her farm. Each hen laid 6 eggs. She wants to divide the eggs equally into 14 boxes. How many eggs will each box contain?

_____ eggs

- 40.** David drank $1\frac{1}{3}$ liters of water in the morning and $1\frac{2}{3}$ liters of water in the afternoon. How many liters of water did he drink today?

_____ liters

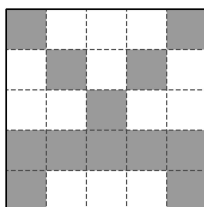
41. How many of the figures below will produce 2 parts that are the same size and shape when cut along the dotted line? [2.3 points]



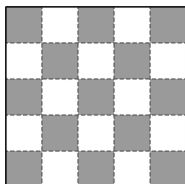
Answer : _____ figures

42. Which figure has the same shaded area as the example? [2.3 points]

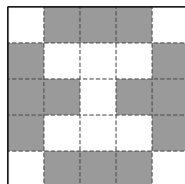
[Example]



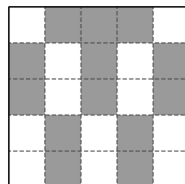
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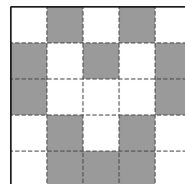
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③

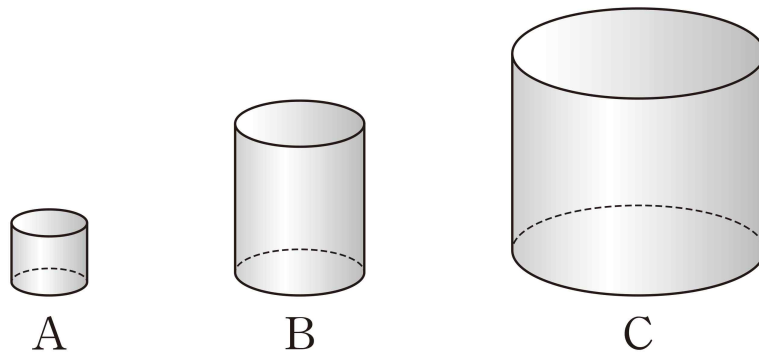


④



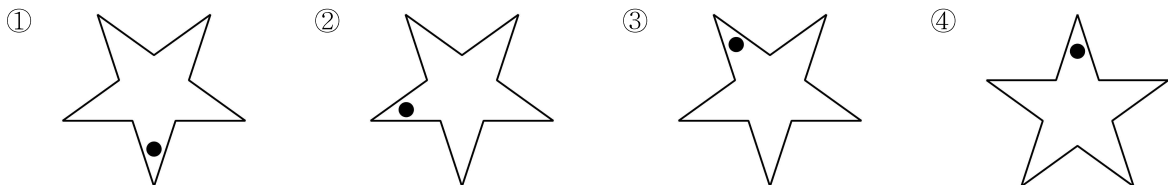
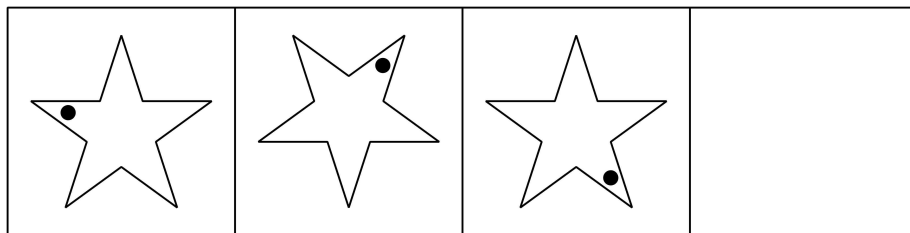
Answer : _____

43. There are three containers A, B, and C. If the full amount of water in A is poured into C 42 times, C will become full. If the full amount of water in B is poured into C 6 times, C will become full. In order to completely fill container B, how many times should the full amount of water in A be poured into B? [3.3 points]



Answer : _____times

44. Which of the following figures should go in the blank box to complete the pattern? [3.3 points]



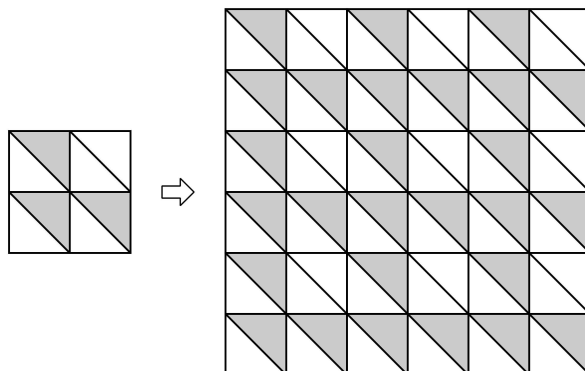
Answer : _____

- 45.** If the numbers in each row are related in a certain way, 'Yes' is written as the Decision. If the numbers in each row are not related in that way, 'No' is written as the Decision. What is the missing number in the blank? [3.3 points]

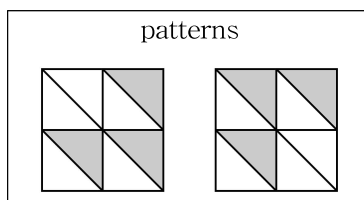
A	B	C	Decision
1	2	5	Yes
2	3	8	No
3	4	13	Yes
4	5		Yes
5	6	31	No

Answer : _____

46. The big picture on the right is made by repeating the pattern on the left.

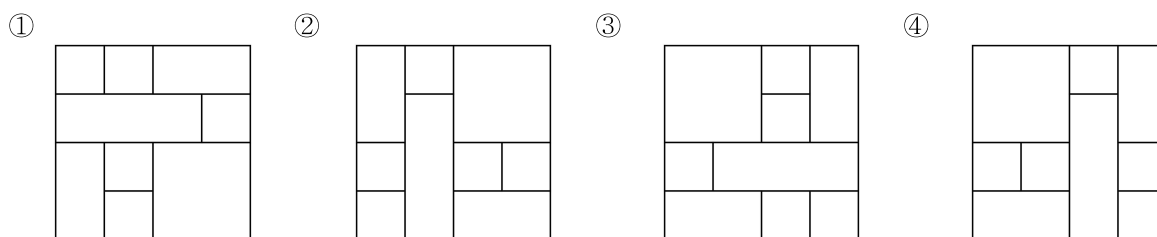
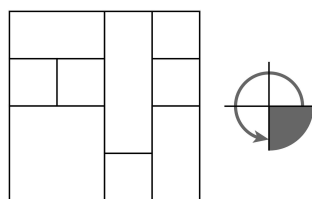


There are two patterns in the box below. How many times in total do these patterns appear in the big picture? [3.3 points]



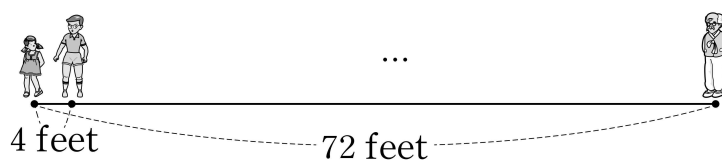
Answer : _____times

47. Which figure would be the result of rotating the given figure in the direction of the arrow? [4.3 points]



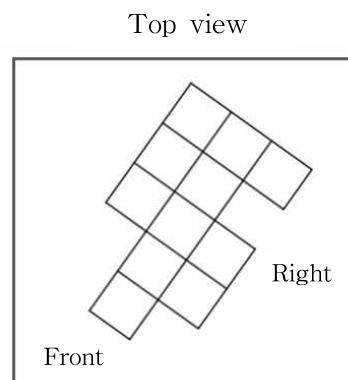
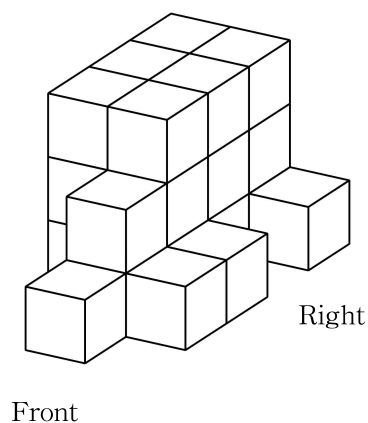
Answer : _____

48. People are lining up at equal intervals of 4 feet. How many people are in the line when the distance between the first person in the line and the last person in the line is 72 feet? [4.3 points]



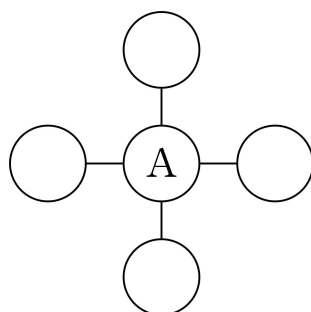
Answer : _____ people

49. How many cube blocks were used to form the following structure? [4.3 points]



Answer : _____ blocks

50. Try to use 1, 3, 5, 7 and 9 only once so that the sum of each line is equal. What is the sum of all the numbers that can be put in the A position? [4.3 points]



Answer : _____