

※ YOU CAN RECEIVE 1.5 POINTS EACH FOR PROBLEMS NUMBER 1 TO 30.

In problems 1-6, solve each question. Then add together all the digits. (For example, if the answer is 209, then write down the final answer as $2+0+9=11$.)

1.

$$\begin{array}{r} 43 \\ \times 6 \\ \hline 258 \end{array} = 15$$

2.

$$\begin{array}{r} 64 \\ \times 7 \\ \hline 448 \end{array} = 16$$

3.

$$\begin{array}{r} 27 \\ \times 76 \\ \hline 2052 \end{array} = 9$$

4.

$$\begin{array}{r} 69 \\ \times 45 \\ \hline 3105 \end{array} = 9$$

5.

$$\begin{array}{r} 462 \\ \times 79 \\ \hline 36498 \end{array} = 30$$

6.

$$\begin{array}{r} 367 \\ \times 538 \\ \hline 197446 \end{array} = 31$$

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.

$$4 \overline{) 31}$$

$$= 10$$

8.

$$5 \overline{) 56}$$

$$= 12$$

9.

$$6 \overline{) 75}$$

$$= 15$$

10.

$$7 \overline{) 89}$$

$$= 17$$

11.

$$3 \overline{) 74}$$

$$= 26$$

12.

$$4 \overline{) 93}$$

$$= 24$$

13.
$$\frac{16...2}{5 \overline{) 82}} = 18$$

14.
$$\frac{13...1}{7 \overline{) 92}} = 14$$

15.
$$\frac{26...2}{3 \overline{) 80}} = 28$$

16.
$$\frac{11...7}{8 \overline{) 95}} = 18$$

17.
$$\frac{27...2}{3 \overline{) 83}} = 29$$

18.
$$\frac{236...1}{3 \overline{) 709}} = 237$$

19.
$$\begin{array}{r} 124\dots1 \\ 6 \overline{) 745} \\ \hline \end{array}$$
$$= 125$$

20.
$$\begin{array}{r} 637\dots5 \\ 7 \overline{) 4464} \\ \hline \end{array}$$
$$= 642$$

21.
$$\begin{array}{r} 16\dots14 \\ 27 \overline{) 446} \\ \hline \end{array}$$
$$= 30$$

22.
$$\begin{array}{r} 48\dots13 \\ 14 \overline{) 685} \\ \hline \end{array}$$
$$= 61$$

23.
$$\begin{array}{r} 27\dots16 \\ 32 \overline{) 880} \\ \hline \end{array}$$
$$= 43$$

In problems 24-26, calculate the answer.

24. $7 + 3 \times 5 - 28 \div 7 = 18$

$$25. \quad 62 - 16 \times 3 + 42 \div 7 = 20$$

$$26. \quad 7 \times (8 + (22 - 13) \div 3) = 77$$

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.)

$$27. \quad 2\frac{9}{11} + 3\frac{7}{11} = 6\frac{5}{11}, 5$$

$$28. \quad 6\frac{1}{9} - 4\frac{5}{9} = 1\frac{5}{9}, 5$$

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

$$29. \quad \begin{array}{r} 5.69 \\ + 3.5 \\ \hline 9.19 \end{array} = 19$$

$$30. \quad \begin{array}{r} 7.3 \\ - 3.56 \\ \hline 3.74 \end{array} = 74$$

※ YOU CAN RECEIVE 2.0 POINTS EACH FOR PROBLEMS NUMBER 31 TO 40.

31. Beth lit 24 candles. The wind blew out and 7 candles went out. Then, 3 candles burned out completely. How many burning candles are left?

_____ candles

$$24 - 7 - 3 = 14$$

32. An online store sells vitamin products. One box has 5 packs and each pack has 15 tablets. How many tablets are in one box?

_____ tablets

$$5 \times 15 = 75$$

33. Peter has 23 boxes of blocks. Each box holds 32 blocks. How many blocks does he have in total?

_____ blocks

$$23 \times 32 = 736$$

34. A year is 365 days. How many more days does three years have than 1000 days?

_____ days

$$3 \times 365 = 1095$$

[Answer] 95

35. In a movie, a fleet was composed of 12 ships and each ship had 126 sailors. How many sailors did the fleet have in total? Write the last 3 digits of the number. For example, if the answer is 1234, then write 234.

$$12 \times 126 = 1512$$

[Answer] 512

36. There are 27 baskets. There are 18 apples in each basket. How many apples are there in total?

_____ apples

$$27 \times 18 = 486$$

37. Judy had 84 cookies and 7 empty boxes. She divided the cookies into equal amounts for 6 friends and herself. How many cookies does each person have?

_____ cookies

$$84 \div 7 = 12$$

- 38.** Joan boiled 60 Easter eggs and put them into boxes. If each box has 8 eggs, find the number of boxes filled with eggs and the number of eggs that are left over. Add these two numbers together.

$$60 \div 8 = 7 \text{ R } 4$$

$$[\text{Answer}] 7+4=11$$

- 39.** Mr. Landon, who runs a laundry, has a lot of buttons. He keeps 246 buttons in 6 bins and each bin contains the same number of buttons. How many buttons are in each bin?

_____ buttons

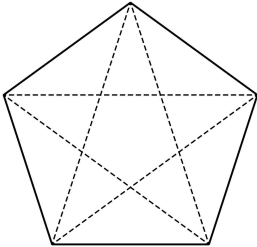
$$246 \div 6 = 41$$

- 40.** Tony's dad bought 2 sacks of potatoes. Each sack contained 24 potatoes. He wants to divide them equally into 6 boxes. How many potatoes will each box contain?

_____ potatoes

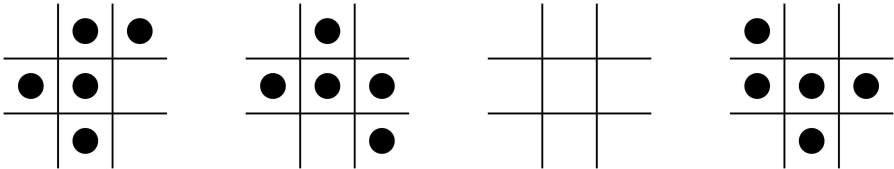
$$2 \times 24 \div 6 = 8$$

41. How many triangles can you make if you are allowed to cut the figure along only three of the five dotted lines? [2.3 points]



Answer : _____

42. Find the picture that follows the pattern. [2.3 points]

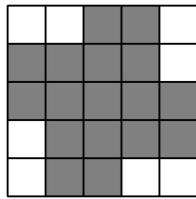


- ①
- ②
- ③
- ④

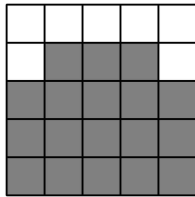
Answer : _____

43. Which figure has the same area as the example? [3.3 points]

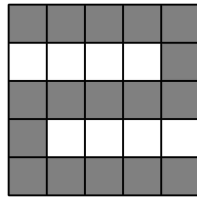
[Example]



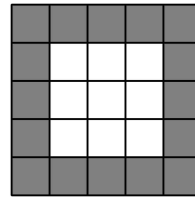
①



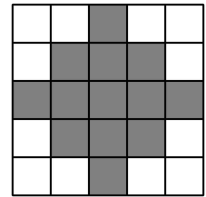
②



③



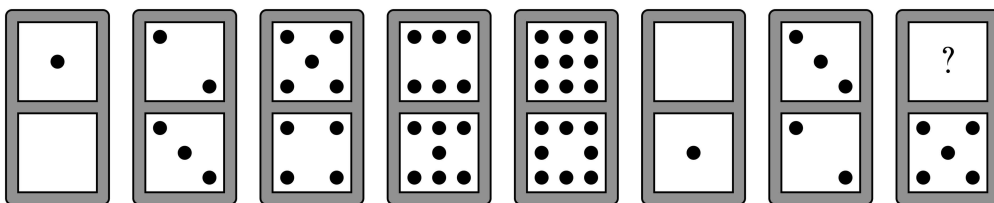
④



Answer : _____

44. What is the number of dots on the ? square of the domino that completes the pattern.
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?

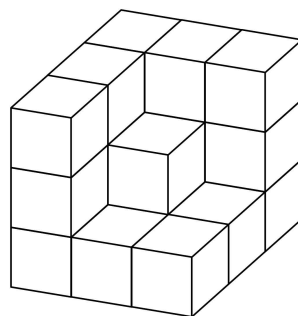
[3.3 points]

A	B	C	Decision
1	8	15	Yes
2	6	10	Yes
3	5	8	No
5	3	<input type="text"/>	Yes
7	4	12	No

Answer : _____

46. Cubes were stacked to make the following structure. How many cube blocks were used to form the structure?

[3.3 points]



Answer : _____ blocks

47. Traffic cones were put at equal 2 m distances along a straight line. The distance between the first cone and the last cone is 40 m. How many cones are there in total? [4.3 points]

Answer : _____ cones

48. A certain number is the same when read forwards or backwards. For example, if 767 is read backwards, it is still 767. How many 3-digit numbers can you find like this? [4.3 points]

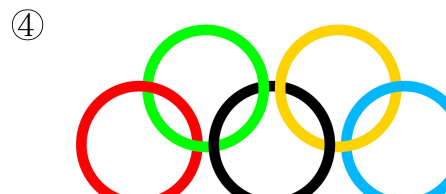
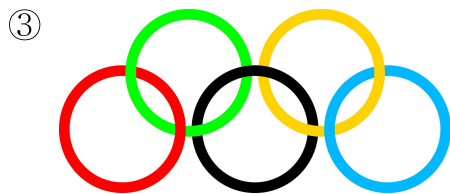
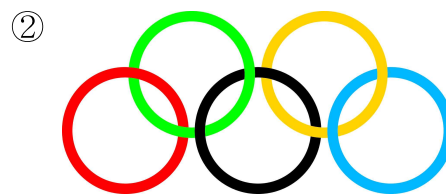
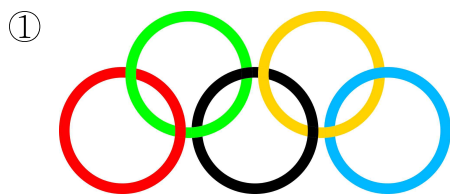
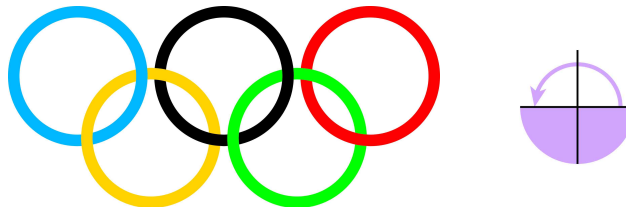
Answer : _____

49. December 1st of this year is Wednesday. What is the date of the first Wednesday of the next year? [4.3 points]

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4

Answer : _____

50. The image is rotated a half turn to the left. What will the image look like after this rotation? [4.3 points]



Answer : _____

