

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

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In 1-6, add the quotient and the remainder after solving each question. (For example, if the quotient is 5 and the remainder is 0, then the answer is  $5+0=5$ . If the quotient is 12 and the remainder is 8, then the answer is  $12+8=20$ .)

1.

$$5 \overline{) 80}$$

2.

$$8 \overline{) 97}$$

3.

$$17 \overline{) 131}$$

4.

$$29 \overline{) 245}$$

5.

$$66 \overline{) 398}$$

6.

$$32 \overline{) 7929}$$

In 7-13, calculate.

7.  $11 \times 4 \div (6 + 5)$

8.  $56 \div 2 + 7 \times 2 - 8$

9.  $(33 - 5) \div 4 + 6 \times 8$

10.  $28 - 5 \times 9 \div 3$

11.  $(25 - 10) \div 5 + 4 \times 3$

12.  $31 - 28 \div 4 \times 2$

13.  $17 - 24 \div ((6 + 8) \times 3 - 34)$

In 14-16, add all the measurement digits after calculating each question. (For example, if the answer is 3(m, kg, L) 54(cm, g, mL), then write as  $3 + 54 = 57$ .)

14. 
$$\begin{array}{r} 3 \text{ m } 25 \text{ cm} \\ + 2 \text{ m } 40 \text{ cm} \\ \hline \end{array}$$

15. 
$$\begin{array}{r} 5 \text{ kg } 890 \text{ g} \\ - 1 \text{ kg } 270 \text{ g} \\ \hline \end{array}$$

16. 
$$\begin{array}{r} 13 \text{ L } 630 \text{ mL} \\ - 8 \text{ L } 700 \text{ mL} \\ \hline \end{array}$$

17. Add all the digits after calculating the given time as the seconds.

6hours 12minutes
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(For example, if the answer is 23456 seconds, then write as  $2 + 3 + 4 + 5 + 6 = 20$ .)

\_\_\_\_\_

In 18-19, add all the measurement digits after calculating each question. (For example, if the answer is 7hr 34min 23sec, then write as  $7 + 34 + 23 = 64$ .)

18. 
$$\begin{array}{r} 8 \text{ hr } 51 \text{ min } 26 \text{ sec} \\ + 4 \text{ hr } 32 \text{ min } 54 \text{ sec} \\ \hline \end{array}$$

19. 
$$\begin{array}{r} 7 \text{ hr } 43 \text{ min } 15 \text{ sec} \\ - 5 \text{ hr } 52 \text{ min } 55 \text{ sec} \\ \hline \end{array}$$

In 20-21, add the numerator and the denominator after solving each question as the simplest form. (For example, if the answer is  $\frac{2}{3}$ , then write as  $3+2=5$ .)

20.  $\frac{36}{45}$

21.  $\frac{76}{133}$

In 22-27, write the numerator after calculating each question as the simplest form of a proper fraction or a mixed number. (For example, if the answer is  $3\frac{10}{6}$ , make  $4\frac{2}{3}$  and write as 2.)

22.  $7\frac{2}{9} + 4\frac{5}{9}$

23.  $3\frac{3}{7} - \left(1\frac{1}{7} + 1\frac{4}{7}\right)$

24.  $3\frac{5}{6} + 4\frac{9}{10}$

25.  $4\frac{5}{12} - 2\frac{17}{30}$

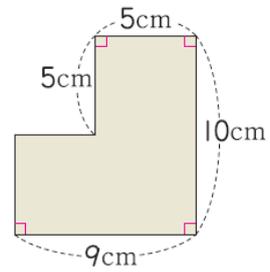
26.  $2\frac{2}{5} \times 0.35$

27.  $\frac{1}{15} \div 2\frac{1}{5} \times 2\frac{1}{4}$

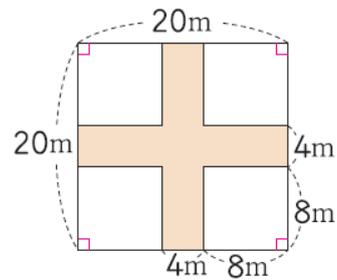
28. Write the decimal part after solving the questions. (For example, if the answer is 18.2 or 18.20, then write as 2. If the answer is 2.54 or 2.054, then write as 54.)

12.9 + 8.31

29. Find the area of the figure.

 cm<sup>2</sup>

30. Find the area of the shaded section.

 m<sup>2</sup>

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

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- 31.** Niki has 77 pears and 67 apples. If the apples are put into 5 baskets evenly, how many apples will be left?

\_\_\_\_\_ apples

- 32.** John has a book that is 323 pages long. How many days will it take him to finish the book if he reads 19 pages each day?

\_\_\_\_\_ days

- 33.** Yesterday, Michael assembled 3 boxes that contain 5 robots each, and today he assembled 2 more of the same boxes. Margaret, on the other hand, assembled 3 boxes that contain 3 robots each yesterday and worked on 3 more of the same boxes today. How many robots have been assembled all together?

\_\_\_\_\_ robots

- 34.** Silvia has 17 red marbles and 5 blue marbles. Sally has 6 less than 4 times the number of marbles Silvia has. How many marbles does Sally have?

\_\_\_\_\_ marbles

- 35.** Jessie has traveled to her grandmother's house by bus. Her trip there took 5 hours 36 minutes and 42 seconds, and her trip back took 4 hours 54 minutes and 59 seconds. How long did Jessie spend on the bus? (Add all digits after calculating. For example, if the answer is 7hr 34min 23sec, then write as  $7 + 34 + 23 = 64$ .)
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- 36.** Sam drank  $11\frac{4}{7}$ L of milk in a month while Jesse drank  $\frac{89}{7}$ L and Elaine drank  $\frac{79}{7}$ L. How much liters of milk did the person who drank the least amount of milk drink? (Write down the sum of denominator and numerator of mixed number. For example, if the answer is  $4\frac{2}{3}$ , write down as  $3 + 2 = 5$ .)
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- 37.** Johnny is  $1\frac{2}{5}$ m tall, and his older brother, James who is a basketball player is 2m tall. How much taller is James than Johnny? (Write down the sum of denominator and numerator of mixed number. For example, if the answer is  $4\frac{2}{3}$ , write down as  $3 + 2 = 5$ .)
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- 38.** Nancy is trying to evenly divide 42 pencils, 35 notebooks, and 14 erasers among as many students as possible. How many students can Nancy give school supplies to?

\_\_\_\_\_ students

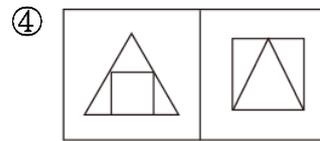
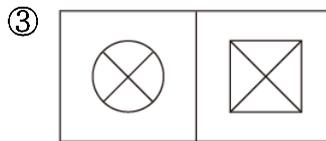
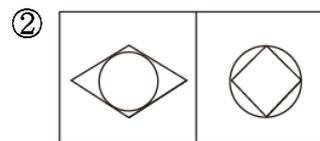
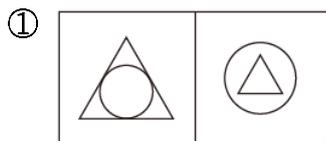
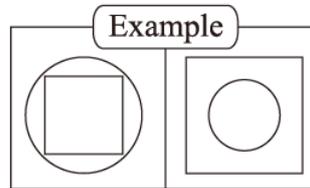
- 39.** Julia and her parents are planting a garden.  $\frac{1}{3}$  of the garden is planted with roses,  $\frac{2}{5}$  with morning glories, and  $\frac{2}{9}$  with tulips. How much of the garden is planted with roses and morning glories? (Write down the sum of denominator and numerator of mixed number. For example, if the answer is  $4\frac{2}{3}$ , then write as  $3 + 2 = 5$ .)

\_\_\_\_\_

- 40.** Angela cut  $12\frac{9}{13}$  cm of ribbon into 11 equal pieces to wrap some presents. How long is each piece? (Write down the numerator of mixed number. For example, if the answer is  $4\frac{2}{3}$ , then write as 2.)

\_\_\_\_\_

41. Look at the figures in the **Example** and find the one that correctly follows the pattern. [2.3 points]



Answer : \_\_\_\_\_

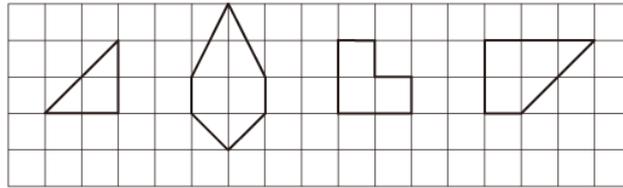
42. Look at the sentence about the month of January, and fill  $\bigcirc$ . [2.3 points]

If the second Sunday is 10<sup>th</sup> , then the fourth Tuesday is  $\bigcirc$ <sup>th</sup>.

Answer : \_\_\_\_\_

43. Look at the figures below and write the number of all line-symmetrical figures.

[3.3 points]



Answer : \_\_\_\_\_ figures

44. Two numbers  $\bigcirc$ ,  $\star$  have a difference of 4 and a product of 60. Find the number  $\bigcirc$ . [3.3 points]

$$\begin{array}{l} \bigcirc - \star = 4 \\ \bigcirc \times \star = 60 \end{array}$$

Answer : \_\_\_\_\_

45. Find the ones place value when 8 is multiplied by itself 8 times. [3.3 points]

$$8 \times 8 \times \cdots \times 8$$

8 times

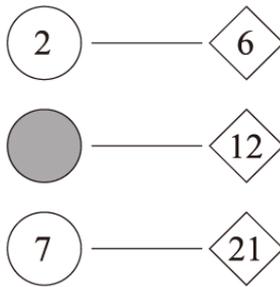
Answer : \_\_\_\_\_

46. Megan is in a line during gym class as below. How many people are there behind Jessy? [3.3 points]

- Megan is in the 4<sup>th</sup> from the front.
- Jessy is right behind of Megan.
- Megan is in the 8<sup>th</sup> from the back.

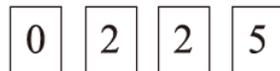
Answer : \_\_\_\_\_ people

47. If the set of numbers follow a pattern, write the correct number in the shaded blank . [4.3 points]



Answer : \_\_\_\_\_

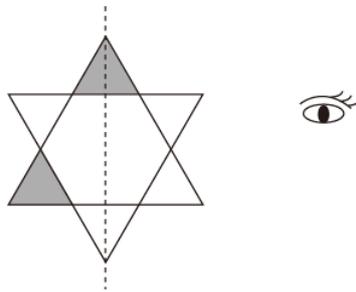
48. How many 3-digit numbers can be made using the following number cards? Each card can only be used once. [4.3 points]



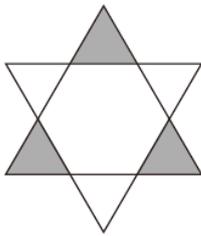
Answer : \_\_\_\_\_ 3-digit numbers

49. Find the figure you would see if a mirror was placed on the dotted line.

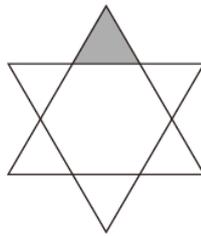
[4.3 points]



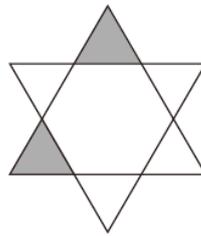
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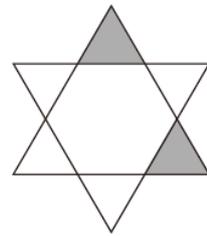
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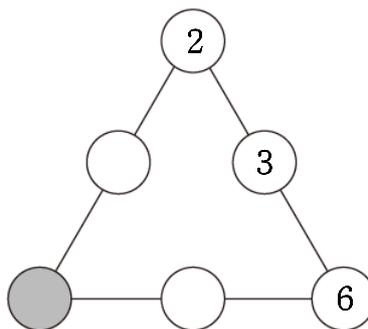


④



Answer : \_\_\_\_\_

50. Use the number from 1 to 6 once so that each side of the triangle has the same sum. Find the number that appear in the shaded ●. [4.3 points]



Answer : \_\_\_\_\_