1. Find the value of $35 + 45 + 55 + 65 + 75 + 85 + 95$. **(2.5 Marks)**

2. Lucas has 231 baht. If Lucas buys 12 notebooks at 7 baht each, how much money will Lucas have left? **(2.5 Marks)**

3. Kevin writes numbers from 1 to 20 on a piece of paper. Then he erases digits 1 and 2 on the paper. What is the sum of all the remaining digits on the paper? **(2.5 Marks)**

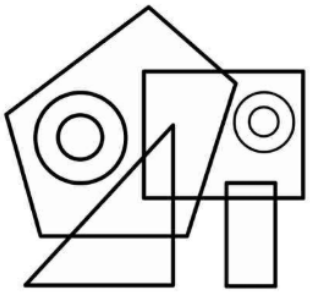
4. Given that $\frac{1}{10} + \frac{2}{10} - \frac{3}{10} + \frac{4}{10} + \frac{5}{10} - \frac{6}{10} + \frac{7}{10} - \frac{8}{10} = \frac{\square}{10}$, find the value of $\square$. **(2.5 Marks)**

5. The water tank is full. Amy takes out 120 liters of water. Kathy takes out 180 liters of water. As a result, only $\frac{1}{4}$ of the tank remains. What is the capacity of the tank in liters? **(2.5 Marks)**

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6. Today, Tom bought 100 bottles of fresh milk at 23 baht per bottle. He set the selling price at 35 baht per bottle. If Tom sold 72 bottles of milk and had to throw away all unsold milk, how much more money did Tom earn from selling the milk than he bought it for? **(2.5 Marks)**

7. From the diagram below, how many quadrilaterals are there? **(2.5 Marks)**



8. There are two types of wooden sticks, A and B. They are arranged in different ways, with some of their lengths shown as in the figure below.

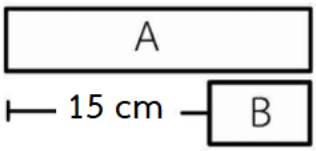


Figure 1

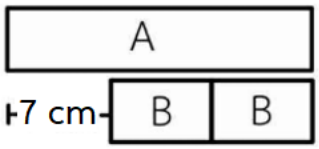
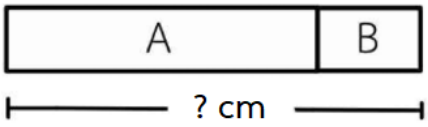


Figure 2

When wooden rods A and B are placed together as shown in the figure below,



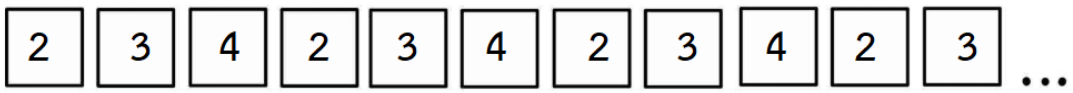
what is the total length in centimeters? **(2.5 Marks)**

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9. From $3+3+3+3=4\times 3$ or $5+5+5=3\times 5$,
suppose that $A+A+A+A=4\times 7$ and $B+B+B+B+B=5\times 8$.
If A and B are any natural numbers, find the value of $A+A\times B$.

(4.5 Marks)

10. From the pattern below,



If the sum of all numbers inside the boxes ☐ is 131, how many boxes ☐ are there?

(4.5 Marks)

11. Kevin runs around the field. Each lap takes 8 minutes. If Kevin runs 3 laps around the field, he takes a 5-minute break. If today Kevin started running at 6:20 a.m. and stopped at 8:40 a.m., how many laps did Kevin run in total?

(4.5 Marks)

12. From the pattern $13,19,25,31,\ldots$, what is the sum of the 12^{th} term and the 21^{st} term?

(4.5 Marks)

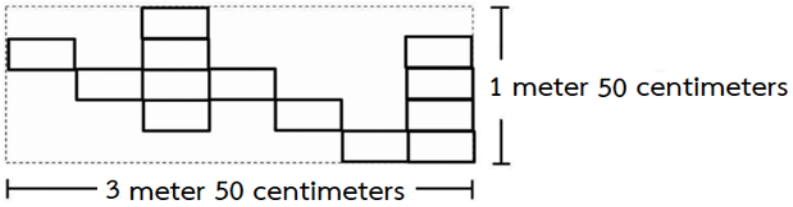
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13. Kathy has three favorite comic books:

    - Conan sells for 124 baht per book.
    - Doraemon sells for 127 baht per book.
    - One Piece sells for 110 baht per book.

    If Kathy has 235 baht, what is the minimum change she will get if she chooses to buy books? **(4.5 Marks)**

14. From the diagram below, a rectangular area has been partially tiled.



    How many more tiles, each measuring 30×50 centimeters, are needed at a minimum to cover the entire area? **(4.5 Marks)**

15. From the diagram below, identical chairs are stacked on top of each other.



    How tall is each chair in centimeters? **(4.5 Marks)**

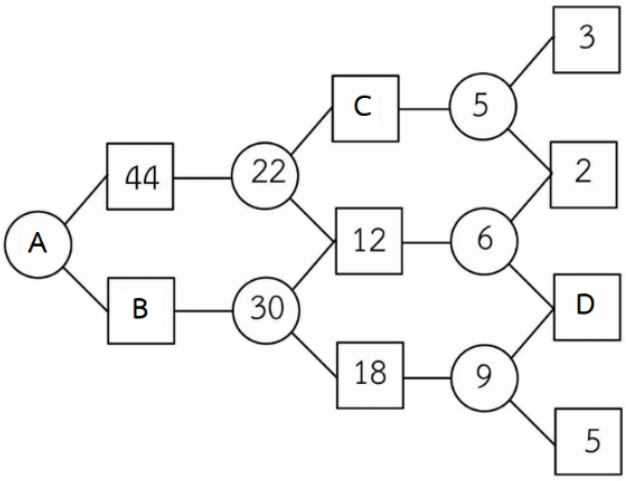
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16. The school organized a "Valuable Trash" project to teach students how to collect and reuse discarded items. In this project, empty used bottles can be exchanged for drinking water. The exchange rate is as follows:

    - 5 empty bottles can be exchanged for 2 bottles of water.

    If Mawin has 50 empty bottles, what is the maximum number of water bottles he can exchange for? **(6 Marks)**

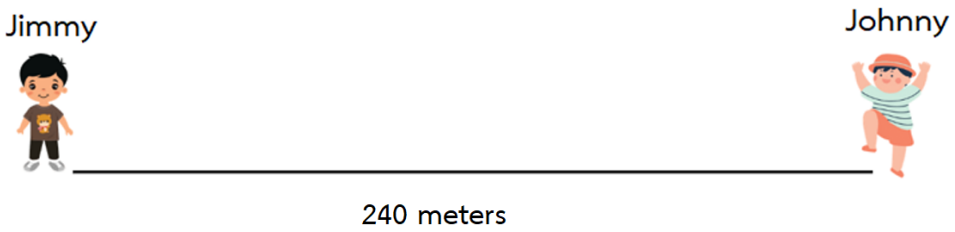
17. Given the pattern below.



What is the value of $\left(A-D\right)+\left(B\div C\right)$? **(6 Marks)**

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18. Jimmy and Johnny are 240 meters apart.



- Jimmy takes 20 minutes to walk to Johnny.
- Johnny takes 30 minutes to walk to Jimmy.

If both start walking towards each other at the same time, what is the minimum number of minutes it will take for them to meet at the same point? **(6 Marks)**

19. How many three-digit numbers are there that have exactly two identical digits and are divisible by 9? **(6 Marks)**

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20. Cullen wants to save money for 30 days, starting on a Wednesday.

He saves 1 baht on the first day, 2 baht the next day, and increases his savings by 1 baht each day. However, every Saturday and Sunday, Cullen works extra and saves double the usual amount for that day. The table below shows an example of Cullen's savings:

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 1			1	2	3	8	10
Week 2	6	7	8	9	10	22	24
Week 3	13	...					
Week 4							
Week 5							

When Cullen completes 30 days of saving, how much money will he have in total? **(6 Marks)**

21. Find the value of $11,201 \div 23 + 512$. **(2.5 Marks)**

22. Suppose that △ + ★ + □ = 15,

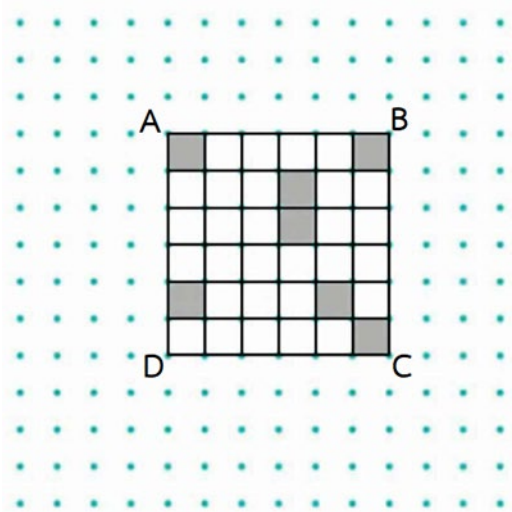
★ + ★ + ★ = 18,

△ x ★ = 24.

Find the value of □ x ★ - △. **(4.5 Marks)**

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23. James draws a quadrilateral ABCD and divides it into 36 identical small squares on dot paper as shown below.



If some of the small squares are shaded, how many more squares does James need to shade to make a quadrilateral ABCD symmetrical?

(4.5 Marks)

24. How many two-digit odd numbers divisible by 7 are there in total?

(2.5 Marks)

25. There are 250 cards numbered 1 to 250. How many cards are there that have the digit "1" on them in total? **(4.5 Marks)**

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GRADE 3 ANSWER KEY

No.	Answer	No.	Answer
1	455	14	22
2	147	15	44
3	84	16	32
4	2	17	106
5	400	18	12
6	220	19	21
7	7	20	585
8	31	21	999
9	63	22	26
10	44	23	3, 4, 5, ..., 29
11	15	24	6
12	212	25	133
13	1		

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