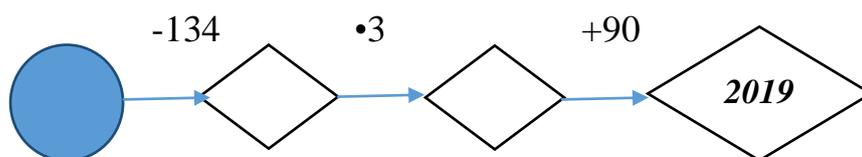


5-6 class

1. Emma wrote her favourite number in the dark circle and performed correctly several calculations following the sequence in the diagram. What is Emma's favourite number?



2. I have a cat, a dog and a rabbit. Together the cat and the dog weigh 12 kg. Together the dog and the rabbit weigh 11 kg. Together the rabbit and the cat weigh 9 kg. What is the total weight of the cat, the dog and the rabbit?

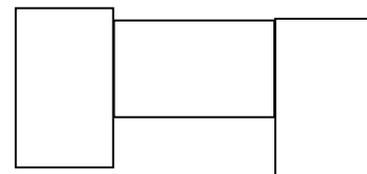
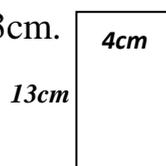
3. Find a number less than 100 that gives a remainder of 1 when divided by 4, a remainder of 2 when divided by 5, and a remainder of 3 when divided by 6.

4. Insert two figures so that the resulting number is a multiple of 15. Write down the smallest of all possible numbers.

	4	
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5. A small bakery sells cakes. The number of the cakes they sell increases each month by 8. If during 2010 they sold 2013 cakes. How many cakes did the bakery sell in 2018?

6. Kris has 3 rectangle. He makes this shape $4\text{cm} \times 13\text{cm}$.
What is the perimeter of this shape?



7. Ammie multiplies a number by 4 and 64 as her answer. However, she should have divided the number by 4 to get the correct answer. What is the correct answer?

8. A meal in a restaurant costs the same for each person. For 11 people the cost is \$253. What is the total cost for 12 people?

9. Given the sequence 1, 3, 6, 10, 15, 21, What is the next number?

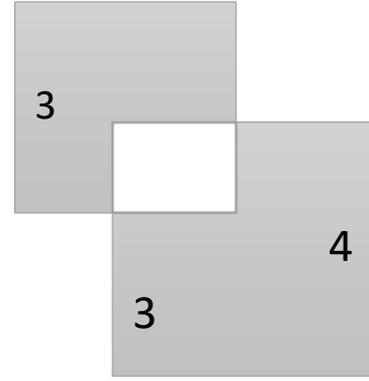
10. What is the value of $\frac{6}{9-8} - \frac{10}{11-9} + \frac{12}{13-10} - \frac{12}{15-11} + \frac{10}{17-12} - \frac{6}{19-13}$

11. If there are 5 Mondays, 5 Tuesdays and 5 Wednesdays in January, on what day of the week will February 1st fall?

12. In how many of the integers (i.e. whole numbers) from 11 to 121 does the digit 5 appear?

13. Here we have two squares. They overlap as shown.

What is the difference between the areas of the two shaded regions?



14. Find the sum of all whole numbers that are less than 100, end in 6 and are multiples of 8.

15. Which is bigger - half a square metre or a half metre square? Write the bigger number.

16. There are 10 lamp posts on one side of the path in the park. The distance between each pair of neighbouring lamp posts is 90 m. Peter was jumping all the way from the first lamp post to the 3 one covering 50 cm with every jump. How many jumps did he make?

17. Vanda cut a paper square with a perimeter of 36 cm into two rectangles. The perimeter of one of the rectangles was 26 cm. What was the perimeter of the second rectangle?

18. I am thinking of a two-digit number that is three more than a square number. The difference between its digits is 4. What is the number?