3,-4. tride, 2018, Klohen

5 In an ancient writing the symbols We know that numbers 1, 2, 3, 4, and 5. Nobody knows which symbol represents which number. **☆** 1 represent the

\$\frac{1}{4}\$ = \frac{1}{4}\$ \$+\$-\$

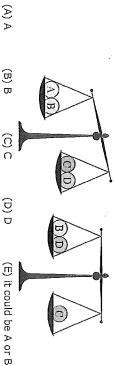
☆+Q=|

Which symbol represents the number 3? (A) ® ** © **₩**

(D)

מווס (א) (ט) דוף (~) \U/ Live _/ ·····

22. Four balls each weigh 10, 20, 30 and 40 grams. Which ball weighs 30 grams?



- 23. Lois wants to write the numbers from 1 to 7 in the grid shown. numbers can she write in the cell marked with a question mark? cells. Neighbouring cells meet at the edge or at a corner. What Two consecutive numbers cannot be written in two neighbouring
- (C) only even numbers(E) only the numbers 1 or 7 (A) all seven numbers
 - (B) only odd numbers
 - (D) only number 4
- 24. The distance from Anna's to Mary's house is 16 kilometers along the shown road The distance from Nick's to John's house is 19 kilometers The distance from Mary's to Nick's house is 20 kilometers.



How far is Anna's house from John's?

(A) 15

(B) 16

(C) 18 (D) 19

(E) 20

5, -6. tride, 2018, Klohan

22. D and E weigh 30, 50, 50, 50 and 80 grams, but In the figure on the right, the five balls A, B, C, not necessarily in this order.

Which ball weighs 30 grams? (A) A (B) B (D) D (E) E (C) C

23. If A, B, C are distinct digits, which of the following numbers cannot be the largest possible 6-digit number written using three digits A, two digits B, and one digit C? (A) AAABBC (B) CAAABB (C) BBAAAC (D) AAABCB (E) AAACBB

24. In the World of Numbers, there are many number-machines, which work in the following way: the machine the number 87312 and using six such machines we obtain: adds the two beginning digits of the number and replaces them by their sum. For example, beginning with

 $87312 \rightarrow 15312 \rightarrow 6312 \rightarrow 912 \rightarrow 102 \rightarrow 12 \rightarrow 3$

How many such machines should be used in order to get the number 9...9 from the number 9...9? (C) 100 (D) 80 (E) Not possible to obtain this number

(A) 50

(B) 60

(B) 3 (C) 4 (D) 6 (E) other answer

Nick wants to arrange the numbers 2, 3, 4, ..., 10 into several groups such that the sum of the numbers in each group is the same. What is the largest number of groups he can get?