Grade 4
Olympiad

Answer the questions

(1) A frog has fallen into a ditch which is 14 meter deep. Each day the frog climbs 5 meter and than falls back by 2 meter. In how many days will the frog reach the top?
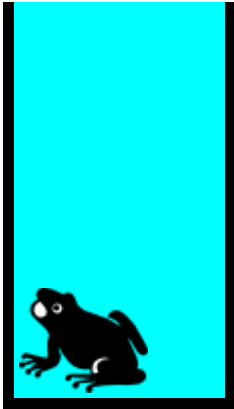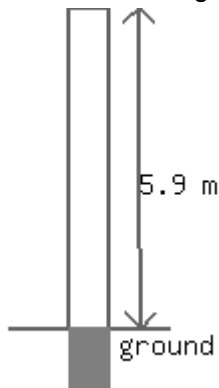
(2) Lily made the input output table given below:

Input	Output
16	4
8	2
28	7
20	5
12	3

What rule can be used to find each output number?

**(3)** What is the total length of the pole in centimeters if 60 cm is buried in the ground?

5.9 m

ground

(4) The table below shows the number of books read by five children in one month.

Name	Number of books
Jennifer	?
Joshua	14
Matthew	18
Kylie	24
Taylor	29

If Jennifer read 3 books less than $\dfrac{1}{5}$ of the total number of books read by the other four children, then how many books did Jennifer read in a month?

(5) Find the least natural number which when divided by 9, 60 and 6 leaves the remainder of 3 in each case.

(6) Name the next figure in the pattern given below:
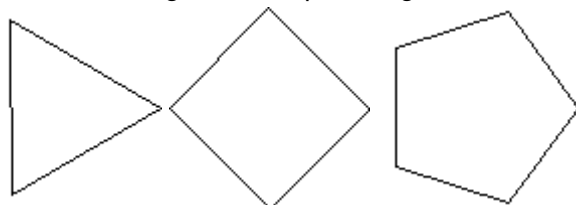
(7) What fraction of squares in the grid given below contain alphabets?

Y	T	M	R	E
L	B	P	D	N
Z	I			
K	W			
F	Q			

(8) What is the 25th term of the series 1 2 2 3 3 3 4 4 4 4 5 5 5 5 5 ....

(9) Find the missing number.
49712, 50212, 50712, 51212, 51712, 52212, _____, 53212.

(10) Jasmine is standing in a row. If she is 30th from the left and 8th from the right, how may people are standing in the row?

(11) Christian baked some muffins in his bakery. He sold $\dfrac{1}{2}$ of them in the morning and $\dfrac{1}{2}$ of the remaining in the afternoon. He sold 15 more muffins in the morning than in the afternoon. How many muffins did he sell in the afternoon?

Choose correct answer(s) from the given choices

(12) In a park, Justin notices that there are 30 legs. How many people and dogs can be there in the park?

    a. 7 people and 5 dogs   **b.** 8 people and 4 dogs

    c. 6 people and 4 dogs   **d.** 7 people and 4 dogs

(13) Which of following has the greatest value?

    a. $(8 \times 100{,}000) + (3 \times 100)$ **b.** $(8 \times 100{,}000) + (4 \times 100)$

    c. $(9 \times 100{,}000) + (4 \times 100) + (5 \times 10)$ **d.** $(9 \times 100{,}000) + (3 \times 100) + (5 \times 10)$

(14) Compare Roman Numbers

DCCCXCVIII _____ MCLXXXV (use <, >, =)

    a. <   **b.** =

    c. >   **d.** none

Fill in the blanks

(15) In all, there are _____ digits in whole number 900000 in the number system.

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Answers

(1) 4 days

(2) Divide by 4

(3) 650 cm

(4) 14

(5) 183

(6) Hexagon

(7) $\dfrac{16}{25}$

(8) 7

(9) 52712

(10) 37

(11) 15

(12) **d.** 7 people and 4 dogs

(13) **c.** (9 × 100,000) + (4 × 100) + (5 × 10)

(14) **a.** <

(15) 6