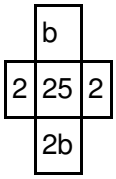
Answer the questions

(1) The number of days left in the month of June are five times the number of days already passed. How many days have already passed in the month of June?

(2) Kinga's father is 3 times as old as Kinga. After 6 years, her father will be 2 times as old as Kinga. How old is Kinga now?

(3) If the number in the center is the sum of all other numbers, find the value of b.



(4) If 2a = 3b = 16, then 12ab =

(5) Stelios has € $8p^2 + 8p + 4$ in his bank account. He deposited € $4p^2 + 8p + 9$ more in his account and then withdrew € $8p^2 + 4p + 2$. If p=3, How much money is left in his account?

(6) Find the sum of the following polynomials:

A) $-8b^2 - 2b + 4$ and $7b^2 + 6b - 5$

B) $9x^2 + 3x + 9$ and $-3x^2 - 9x - 6$

(7) Natasha is setting up a factory to manufacture pens. If she buys a machine that costs €24112, then she can manufacture a pen for €3.6. On the other hand, if she buys a machine that costs €16000, she can manufacture a pen for €6.
How many pens should she manufacture, so that total cost is the same no matter which machine she buys?

(8) If $a + b = 13$,
$b + c = 11$, and
$c + a = 8$,
then what is the value of $a + b + c$?

(9) Find the greatest n digit number.

(10) What are the two numbers whose sum is 115 and difference is 29?

(11) The sum of 3 consecutive even numbers is 30. Find the numbers.

(12) Pavel had some balls. He gave y balls to his friends. If 7 balls are remaining with him now, how many balls he had earlier?

(13) If P= $-2q^2 + q - 2$, Q= $-3q^2 - 5q - 3$ and R=$3q^2 - 4q + 1$, find (P-Q+R).

Choose correct answer(s) from the given choices

(14) Julia had some packs of pencils (each pack contains 13 pencils). She gave away 19 pencils to her friend Christina. If *b* is the number of packs Julia originally had, how many pencils are left with Julia?

a. 13 - 19b

b. 19 - 13b

c. 13b - 19

d. 19b - 13

(15) If $2x + 3y = 7$ then which of the following values of *x* and *y* will hold true?

a. $x = 4, y = \frac{6}{3}$

b. $x = \frac{5}{3}, y = 2$

c. $x = 1, y = \frac{5}{4}$

d. $x = 1, y = \frac{5}{3}$