Q1 What does the word ‘ravages’ mean as it is used in line 1?

A. journeys
B. habits
C. visits
D. damage

Q2 Which types of trees did the ants attack in Belt’s garden?

I. banana
II. orange
III. apple
IV. mango

A. I and II only
B. II and III only
C. I, II and IV only
D. I, II, III and IV

[redacted]

SAMPLE

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Q6 A four-digit code is created using these clues:

- The digits do not repeat.
- The first digit is a single-digit cube number greater than 1.
- The second digit is a prime factor of the first digit.
- The third digit is the difference between the first and second digits.
- The fourth digit is odd, and the sum of all four digits is a square number.

What is the four-digit code?

Q7 In Lucia's number system, the symbol $\oplus$ works in this way:

$a \oplus b = 2a + b - 4$

The letters a and b stand for numbers.

Work out the value of n if $5 \oplus n = 19$.

SAMPLE

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Q6 8269

Step 1: The only single-digit cube number greater than 1 is 8, so the first digit is 8 (2^3 = 2 x 2 x 2 = 8. 3^3 = 3 x 3 x 3 = 27, which is more than 1 digit).

Step 2: The only prime factor of 8 is 2, so the second digit is 2.

Step 3: The difference between the first and second digits is 8 − 2 = 6, so the third digit is 6.

Step 4: The digits so far sum to 8 + 2 + 6 = 16. Testing the odd digits not yet used (1, 3, 5, 7, 9), only adding 9 gives a square number: 16 + 9 = 25 = 5^2.

Step 5: The code is 8269.

Q7 13

Step 1: $5 \oplus n = (2 \times 5) + n - 4$.

Step 2: This simplifies to 10 + n – 4 = 6 + n.

Step 3: We are told $5 \oplus n = 19$, so 6 + n = 19.

Step 4: Rearranging gives n = 19 − 6 = 13.

SAMPLE

Go to next page.

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Section 1: English

Examples

A.

S	U	N	F	L	O	W	E	R	S

first new word / second new word

B.

CORE	THICK

SAMPLE

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