

Level 3

12. A little girl has 4 shirts. Their colours are red, blue, green, and brown. She also has 3 skirts. Their colours are black, brown, and white. How many different shirt-skirt combinations can she wear, if she has decided to wear the white skirt.
- (A) 4 (B) 6 (C) 8 (D) 12 (E) 24

Additional directions for questions 13 and 14

In the following questions, you are given a function $f(x)$ which is defined as:

$$f(x) = x^2 + 2 \text{ if } x \text{ is even}$$

$$f(x) = x^2 - 2 \text{ if } x \text{ is odd}$$

Level 3

13. What is the value of the function when $x = 7$?
- (A) 5 (B) 9 (C) 45 (D) 47 (E) 51

Level 4

14. Of the following, which value of x produces the greatest value of $f(x)$?
- (A) -2 (B) -1 (C) 1 (D) 2 (E) 3

Directions for questions 15–19

Following each of the questions below, you are given two statements. To answer the question, you can use one or both statements. Choose

- (A) if statement (1) ALONE is sufficient to answer the question, but statement (2) alone is not.
(B) if statement (2) ALONE is sufficient to answer the question, but statement (1) alone is not.
(C) if both statements TOGETHER are sufficient to answer the question, but neither statement is independently sufficient to answer the question.
(D) if both statements are INDEPENDENTLY sufficient to answer the question.
(E) if both statements taken either independently or together are INSUFFICIENT to answer the question.

Level 5

15. What is the 2 digit number?
1. The number is 3 times the sum of its digits.
 2. If 45 is added to it, we get the original number with the digits reversed.

Level 5

16. Is it Friday today?
1. 21st February of this year was a Wednesday.
 2. Today is 18th March of this year.