What is the product of all the solutions of of the equation  $x+rac{10}{x-4}=-1$  ?

Select one:

a. -6
b. -5
c. 6
d. 1

## Question 2

In certain village, the ratio between adult men and adult women is 5:3 and the ratio between adult men and children is 7:2. What is the ratio between adults (men and women) and children?

Select one:

a. 15:7
b. 28:5
c. 28:1
d. 5:1

What is the unit digit of the number  $324^3+324^0+324^2+324^5$ ?

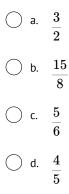
Select one:

a. 3
b. 5
c. 4
d. 6

# Question 4

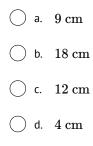
Five positive real numbers x, y, z, u and v are such that xy = 2, yz = 3, zu = 4, uv = 5. What is the value v/x?

Select one:



The perimeter of two similar triangles ABC and KLM are 18 cm and 12 cm, respectively. The length of the line segment KL is 6 cm. What is the length of the line segment AB?

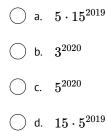
Select one:



## Question 6

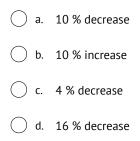
The sum of three consecutive integers is  $15^{2020}$ . What is the middle number?

Select one:



If the price of an article is first decreased by 30 % and then increased by 20 %, then the net change in the price of the article will be:

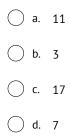
Select one:



# Question 8

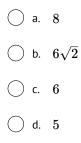
The number  $8^{2020} + 8^{2021} + 8^{2022} + 8^{2023}$  is divisible by

Select one:



We are given a regular hexagon ABCDEF. The area of the quadrilateral BCEF is  $4 \text{ cm}^2$ . What is the area of the given hexagon in square centimetres?

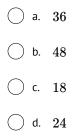
Select one:



## Question 10

How many different positive odd integers can be formed using the digits 3, 5, 6 and 7 in which repetition of digits is not alowed?

Select one:



Correct answers:

- 1 C 2 B 3 B 4 B 5 A 6 D 7 D 8 B 9 C
- 10 B