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

Select one:

- a. -6
-) b. -5
- O c. 6
- O 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?

- $\bigcirc \ \ \, \text{a.} \ \ \, 15:7$
- $\bigcirc \ \text{b.} \ 28:5$
- $\bigcirc \ \ \text{c.} \ \ \, 28:1$
- $\bigcirc \ \text{d.} \ 5:1$

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

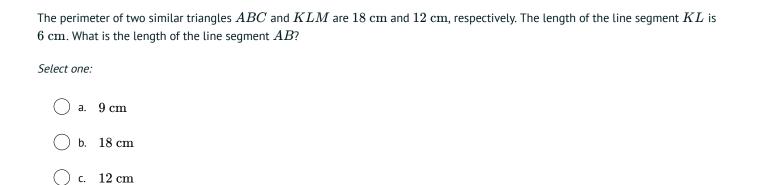
Select one:

- a. 3
- O b. 5
- O c. 4
- O 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?

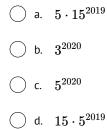
- $\bigcirc \ \ \mathsf{a.} \quad \frac{3}{2}$
- $\bigcirc b. \quad \frac{15}{8}$
- \bigcirc c. $\frac{5}{6}$
- $\bigcirc \ \, \mathsf{d.} \quad \frac{4}{5}$

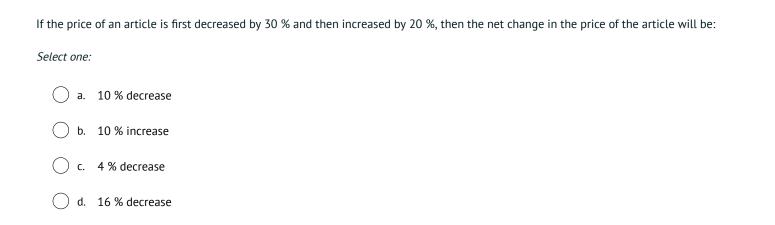


Question 6

 $\bigcirc \ \text{d.} \ 4 \ cm$

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





Question 8

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

- () a. 11
- () b. ;
- C 17
- O d. 7

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

Select one:



$$\bigcirc$$
 b. $6\sqrt{2}$

$$\bigcirc$$
 c. 6

$$\bigcirc \ \, \text{d.} \ \, 5$$

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 allowed?

Select one:



$$\bigcirc$$
 d. 24

Correct answers:

1 C 2 B 3 B 4 B

5 A 6 A 7 D 8 B

9 C 10 B