

Answer The Following

1) Find value of following

A) $8^2 \times (-4)^2$

B) $(-4)^2 \times 8^2$

2) $\left\{ \left(\frac{1}{3}\right)^3 \times \left(\frac{3}{2}\right)^3 \times \left(\frac{1}{3}\right)^3 \right\}^{-1} = ?$

3) Solve following and write in simplest fraction form,

$\left(\frac{3}{5}\right)^{-3} + \left(\frac{5}{3}\right)^2$

4) George plants a seed on 13th birthday. If the plant has one seed to start with and number of seeds doubles every week, then how many seeds will be there after a week?

5) Find value of following

A) $(-5)^4$

B) 5^4

All in the blanks

6) If $(-3)^2 \times (-4)^2 = 15x$,

$x = \underline{\hspace{2cm}}$

7)

Product of square of $\frac{-4}{4}$ and cube of $\frac{1}{4} = \frac{\underline{\hspace{1cm}}}{\underline{\hspace{1cm}}}$

8) $\left\{ \left(\frac{3}{3}\right)^{-2} + \left(\frac{1}{2}\right)^1 \right\}^{-1} = \frac{\underline{\hspace{1cm}}}{\underline{\hspace{1cm}}}$

9) Simplify following and write answer in exponential form

A) $\frac{4^5 \times 8^2}{2^3} \times 4^2 = 2^{\underline{\hspace{1cm}}}$

B) $\frac{4^2 \times 4^2 \times 8^2}{\hspace{2cm}} \times 8^2 \times 2^2 \times 4^3 = 2^{\underline{\hspace{1cm}}}$