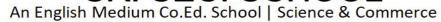


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Subject: Maths

Class: 8

Topic: Exponents and Powers

Watch video #6 and solve the following exercise:

EXERCISE 2.3

Use Cordova Smart Class Software on the smart board in class to do Exercise

1. Simplify and write the answer in the form of $\frac{p}{r}$:

(i)
$$\left[\left(\frac{1}{2}\right)^3\right]^2$$

2. Find the value of (6⁻¹ - 7⁻¹)⁻¹.

3. Simplify:

(i)
$$6^{\circ} - 7^{\circ} - 5^{\circ}$$

(ii)
$$(5^3)^2 \times 5^{-5}$$

$$(iii)$$
 $(9^3)^2 \div (3^6)^2$

4. Simplify and write the answer with positive integral index :

(ii)
$$27^3 \times 3^{-6}$$

$$(iii) \quad \left(\frac{x^4 \ y^3 \ z^2}{xy^2 \ z^4}\right)^{-2}$$

5. By what number should $\left(-\frac{5}{3}\right)^3$ be multiplied to obtain $\left(-\frac{3}{5}\right)^4$?

6. Simplify:

(i)
$$(4^{-1} + 8^{-1}) \times \left(\frac{3}{2}\right)^{-1}$$

(ii)
$$\left[\left(\frac{2}{3}\right)^2\right]^{-2}$$

7. Find x, if
$$(3^{x+2} - 9) \div 8 = 9$$
.

8. Show that
$$\frac{25 \times 2x^{-4}}{5^{-2} \times 10x^{-6}} = 125x^2$$
.





9. Simplify:

(i)
$$\left[\left(\frac{6}{7} \right)^{-1} - \left(\frac{1}{6} \right)^{-1} \right]^{-1} \div (29)^{-1}$$

(ii)
$$\left[\left(\frac{1}{3} \right)^{-2} - \left(\frac{1}{2} \right)^{-3} + \left(\frac{1}{4} \right)^{-1} \right]^{-1} \div 5^{-2}$$
.

10. Find the value of m, if $(-5)^{m+1} \times (-5)^6 = (-1)^9 (5)^9$.