

Class - VIII

Sub: Maths

\* Do in H.W. copy:

1) Evaluate : i)  $(\frac{1}{2})^{-5}$       ii)  $(-3)^{-4}$

2) Evaluate : i)  $(\frac{5}{3})^2 \times (\frac{5}{3})^2$       ii)  $(\frac{9}{8})^{-3} \times (\frac{9}{8})^2$

3. Evaluate : i)  $(\frac{5}{9})^{-2} \times (\frac{3}{5})^{-3} \times (\frac{3}{5})^0$       ii)  $(\frac{-3}{5})^{-4} \times (\frac{-2}{5})^2$

4. Evaluate :  $\{ (\frac{1}{3})^{-3} - (\frac{1}{2})^{-3} \} \div (\frac{1}{4})^{-3}$

5. Find value : i)  $(2^0 + 3^{-1}) \times 3^2$

ii)  $(2^{-1} \times 3^{-1}) \div 2^{-3}$

iii)  $(\frac{1}{2})^{-2} + (\frac{1}{3})^{-2} + (\frac{1}{4})^{-2}$

6. Find 'x' : i)  $(\frac{5}{3})^{-4} \times (\frac{5}{3})^{-5} = (\frac{5}{3})^{3x}$

ii)  $(\frac{4}{9})^4 \times (\frac{4}{9})^{-7} = (\frac{4}{9})^{2x-1}$

7) By what number should  $(-6)^{-1}$  be multiplied so that the product

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S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Contd.

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becomes  $(9)^{-1}$ ?

8) By what number should  $(-\frac{2}{3})^{-3}$  be divided so that the quotient may be  $(\frac{4}{27})^{-2}$ ?

9) If  $5^{2x+1} \div 25 = 125$  find  $x$

10) Find  $x$ :  $(2^{3x-1} + 10) \div 7 = 6$

11) Solve: a)  $(\frac{1}{2})^{-2} + (\frac{1}{3})^{-2} + (\frac{1}{4})^{-2}$

b)  $\left\{ (\frac{1}{3})^{-3} - (\frac{1}{2})^{-3} \right\} \div (\frac{1}{4})^{-3}$

-x