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Mathematics
Holiday Assignment-3
Session-2021-22
Class - IX

1. Express the following numbers in the form of $p$ :
q
(a) -25.6875
(b) 0.621621621 ..
(c) 15.712121212..
2. Write one rational \& one fractional number between $0.515115111 \ldots$.... and $0.535335333 \ldots$...
3. Write one example each of two irrational numbers whose:
(a) Sum is a rational number
(b) Product is an irrational number
(c) Difference is an irrational number
(d) Quotient is a rational number
4. Simplify : $\left[\left\{(625)^{-1 / 2}\right\}^{-1 / 4}\right]^{2}$
5. (a) Find the value of $x$ if $2^{x-7} \times 5^{x-4}=1250$
(b) Find the value of $x$ and $y$ if:

$$
3^{x-1}=9 \text { and } 4^{y+2}=64
$$

6. Find the value of $a$ \& $b$ if $\underline{5+2 \sqrt{3}}=a+b \sqrt{ } 3$

$$
7+4 \sqrt{3}
$$

7. If $x=3+v 8$, then find the value of $x^{2}+\underline{1}$.
$x^{2}$
