Maths

19/10/2021

H.H.W

Revision

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class → VIII
Section → A
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1) Reciprocal of zero is _____

(ans) ⇒ a) 0 ☑

2) The multiplicative inverse of 10^{-100} is

(ans) ⇒ a) 10^{100} ☑

3) zero (0) is the identity for addition of rational numbers.

(ans) ⇒ b) the identity for multiplication of rational number ☑

4) one (1) is the identity for addition of rational numbers.

(ans) ⇒ b) The identity for multiplication of rational numbers ☑

5) Find the least number by which 1323 must be multiplied so that the product is a perfect cube.

(ans) ⇒ c) 7 ✓

6) 2.7 is what percent of 18?

(ans) ⇒ $2.7 = \frac{27}{10}$

$= \frac{27}{10} \times 18$

$= \frac{27}{100}$

$= \frac{27}{10} \times \frac{1}{100} \times 18$

$=$

b) 15%. ✓

7) If A and B are two sets such that $n(A) = 15$, $n(B) = 21$ and $n(A \cup B) = 36$ then $n(A \cap B)$ equal to :-

(ans) ⇒ b) 0 ✓

8) If $5A \times A = 399$ then value of A is :-

5A

(ans) ⇒ b) 7 ✓

9) If 30 men can do a work in 24 days. How many men will do the same work in 12 days?

(ans) ⇒ If 30 men can do a work in 24 days then

The work can done in 12 days = $\frac{24}{30} = \frac{4}{5}$

10) $a+b = b+a$

(ans) ⇒ ∵ commutative law ☑

11) Insert three rational numbers between $\frac{2}{3}$ and $\frac{3}{4}$

first no.

(ans) ⇒ $\frac{1}{2}\left(\frac{2}{3}+\frac{3}{4}\right)$

$= \frac{1}{2}\left(\frac{8+9}{12}\right)$

$= \frac{1}{2} \times \frac{17}{12}$

~~first~~ $\frac{17}{24}$

~~Second~~

2nd no.

$\frac{1}{2}\left(\frac{3}{4}+\frac{17}{24}\right)$

$= \frac{1}{2}\left(\frac{18+17}{24}\right)$

$= \frac{1}{2} \times \frac{35}{24}$

$= \frac{35}{48}$

3rd no.

$\frac{1}{2}\left(\frac{2}{4}+\frac{35}{24}\right)$

$= \frac{1}{2} \times \frac{12+35}{24}$

$= \frac{1}{2} \times \frac{47}{24}$

$= \frac{47}{48}$

12) Simplify: $(12)^{-2} \times 4^3$

$= \frac{1}{12^2} \times 4^3$

$= \frac{1}{144} \times 64$

$= \frac{1}{144} \times 64$

$= \frac{4}{9}$

14) $0, \frac{2}{5}, \frac{-8}{7}, \frac{-3}{2}, \frac{-9}{8}$

19) $P = ₹7500$

$R = 8\%$

$T = 2$ year

$\text{Interest} = \frac{PRT}{100}$

$= \frac{7500 \times 8 \times 2}{100}$

$= 1200$