Mathematics

Question 1:

Name the property under multiplication used in each of the following:

(i) $\dfrac{-4}{5} \times 1 = 1 \times \dfrac{-4}{5}$

(ii) $-\dfrac{13}{17} \times \dfrac{-2}{7} = \dfrac{-2}{7} \times \dfrac{-13}{17}$

(iii) $\dfrac{-19}{29} \times \dfrac{29}{-19} = 1$

Answer 1:

(i) 1 is the multiplicative identity.

(ii) Commutative property.

(iii) Multiplicative Inverse property.

Question 2:

Tell what property allows you to compute $\dfrac{1}{3} \times \left(6 \times \dfrac{4}{3} \right)$ as $\left(\dfrac{1}{3} \times 6 \right) \times \dfrac{4}{3}$.

Answer 2:

By using associative property of multiplication, $a \times (b \times c) = (a \times b) \times c$.

Question 3:

The product of two rational numbers is always a _____.

Answer 3:

The product of two rational numbers is always a Rational Number.