Operations on Whole Numbers Ex 4.4 Q1

Answer:

Yes, there exists a whole number a such that $a \div a = a$.
The whole number is 1 such that $1 \div 1 = 1$.

Operations on Whole Numbers Ex 4.4 Q2

Answer:

(i) $23457 \div 1 = 23457$

(ii) $0 \div 97 = 0$

(iii) $476 + (840 \div 84) = 476 + 10 = 486$

(iv) $964 - (425 \div 425) = 964 - 1 = 963$

(v) $(2758 \div 2758) - (2758 \div 2758) = 1 - 1 = 0$

(vi) $72450 \div (583 - 58) = 72450 \div 525 = 138$

Operations on Whole Numbers Ex 4.4 Q3

Answer:

(i) False

LHS: $10 \div (5 \times 2)$

$= 10 \div 10$

$= 1$

RHS: $(10 \div 5) \times (10 \div 2)$

$= 2 \times 5$

$= 10$

(ii) True

LHS: $(35 - 14) \div 7$

$= 21 \div 7$

$= 3$

RHS: $35 \div 7 - 14 \div 7$

$= 5 - 2$

$= 3$

(iii) False

LHS: $35 - 14 \div 7$

$= 35 - 2$

$= 33$

RHS: $35 \div 7 - 14 \div 7$

$= 5 - 2$

$= 3$

(iv) False

LHS: $(20 - 5) \div 5$

$= 15 \div 5$

= 3

RHS: 20 ÷ 5 − 5

= 4 − 5

= −1

(v) False

LHS: 12 × (14 ÷ 7)

= 12 × 2

= 24

RHS: (12 × 14) ÷ (12 × 7)

= 168 ÷ 84

= 2

(vi) True

LHS: (20 ÷ 5) ÷ 2

= 4 ÷ 2

= 2

RHS: $(20 \div 2) \div 5$

$= 10 \div 5$

$= 2$

********** END *********