Integers Ex 1.2 Q1

Answer :

(i) $102 \div 17 = \frac{|102|}{|17|} = \frac{102}{17} = 6$

(ii) $-85 \div 5 = -\frac{|-85|}{|5|} = -\frac{85}{5} = -17$

(iii) $-161 \div (-23) = \frac{|-161|}{|-23|} = \frac{161}{23} = 7$

(iv) $76 \div -19 = -\frac{|76|}{|-19|} = -\frac{76}{19} = -4$

(v) $17654 \div (-17654) = -\frac{|17654|}{|-17654|} = -\frac{17654}{17654} = -1$

(vi) $(-729) \div (-27) = \frac{|-729|}{|-27|} = \frac{729}{27} = 27$

(vii) $21590 \div -10 = -\frac{|21590|}{|-10|} = -\frac{21590}{10} = -2159$

(viii) $0 \div (-135) = -\frac{|0|}{|-135|} = -\frac{0}{135} = 0$

Integers Ex 1.2 Q2

Answer :

(i) $296 \div -148 = -\frac{|296|}{|-148|} = -\frac{|296|}{|148|} = -\frac{296}{148} = -2$

$\therefore 296 \div (-2) = -148$

(ii) $-88 \div 11 = -\frac{|-88|}{|11|} = -\frac{|88|}{|11|} = -\frac{88}{11} = -8$

$\therefore -88 \div -8 = 11$

(iii) $84 \div 12 = \frac{|84|}{|12|} = \frac{84}{12} = 7$

$\therefore 84 \div 7 = 12$

(iv) $25 \times (-5) = -125$

$\therefore -125 \div -5 = 25$

(v) $156 \times (-2) = -312$

$\therefore -312 \div 156 = -2$

(vi) $567 \times (-1) = -567$

$\therefore -567 \div 567 = -1$

Integers Ex 1.2 Q3

Answer :

(i)

$$\text{LHS} = \frac{|0|}{|4|} = \frac{0}{4} = 0$$
$$= \text{RHS}$$

Because LHS is equal to RHS, the equation is true.

(ii)

$$\text{LHS} = -\frac{|0|}{|-7|} = -\frac{0}{7} = -0 = 0$$
$$= \text{RHS}$$

Because LHS is equal to RHS, the equation is true.

(iii)

$$\text{LHS} = -\frac{|-15|}{|0|} = -\frac{15}{0} = \text{Not defined}$$
$$\neq \text{RHS}$$

Because LHS is not equal to RHS, the equation is false.

(iv)

$$\text{LHS} = \frac{|0|}{|0|} = \frac{0}{0} = \text{Not Defined}$$
$$\neq \text{RHS}$$

Because LHS is not equal to RHS, the equation is false.

(v)

$$\text{LHS} = \frac{|-8|}{|-1|} = \frac{8}{1} = 8$$
$$\neq \text{RHS}$$

Because LHS and RHS are not equal, the equation is false.

(vi)

$$\text{LHS} = \frac{|-8|}{|-2|} = \frac{8}{2} = 4$$
$$= \text{RHS}$$

Because LHS is equal to RHS, the equation is true.

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