Integers
Exercise 1C

Solution 01

Answer :

(i) $65 \div (-13) = \frac{65}{-13} = -5$

(ii) $(-84) \div 12 = \frac{-84}{12} = -7$

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

(iv) $(-132) \div 12 = \frac{-132}{12} = -11$

(v) $(-150) \div 25 = \frac{-150}{25} = -6$

(vi) $(-72) \div (-18) = \frac{-72}{-18} = 4$

(vii) $(-105) \div (-21) = \frac{-105}{-21} = 5$

(viii) $(-36) \div (-1) = \frac{-36}{-1} = 36$

(ix) $0 \div (-31) = \frac{0}{-31} = 0$

(x) $(-63) \div 63 = \frac{-63}{63} = -1$

(xi) $(-23) \div (-23) = \frac{-23}{-23} = 1$

(xii) $(-8) \div 1 = \frac{-8}{1} = -8$

Solution 02

(i)

72 ÷ (*x*) = −4

$\Rightarrow \frac{72}{x} = -4$

$\Rightarrow x = \frac{72}{-4} = -18$

(ii)

−36 ÷ (*x*) = −4

$\Rightarrow \frac{-36}{x} = -4$

$\Rightarrow x = \frac{-36}{-4} = 9$

(iii)

(*x*) ÷ (−4) = 24

$\Rightarrow \frac{x}{-4} = 24$

$\Rightarrow x = 24 \times \left(-4\right) = -96$

(iv)

(*x*) ÷ 25 = 0

$\Rightarrow \frac{x}{25} = 0$

$\Rightarrow x = 25 \times 0 = 0$

(v)

(*x*) ÷ (−1) = 36

$\Rightarrow \frac{x}{-1} = 36$

$\Rightarrow x = 36 \times \left(-1\right) = -36$

(vi)

(*x*) ÷ 1 = −37

$\Rightarrow \frac{x}{1} = -37$

$\Rightarrow x = -37 \times 1 = -37$

(vii)

39 ÷ (*x*) = −1

$\Rightarrow \frac{39}{x} = -1$

$\Rightarrow x = -1 \times 39 = -39$

(viii)

1 ÷ (*x*) = −1

$\Rightarrow \frac{1}{x} = -1$

$\Rightarrow x = -1 \times 1 = -1$

(ix)

−1 ÷ (*x*) = −1

$\Rightarrow \frac{-1}{x} = -1$

$\Rightarrow x = \frac{-1}{-1} = 1$

Solution 03

(i) True (T). Dividing zero by any integer gives zero.

(ii) False (F). Division by zero gives an indefinite number.

(iii) False (F). $\frac{-5}{-1} = 5$

(iv) True (T). $\frac{-8}{1} = -8$

(v) False (F). $\frac{-1}{-1} = 1$

(vi) True (T). $\frac{-9}{-1} = 9$