#### Class-7 Mthematics

#### Exercise-1.4

# 1. Evaluate each of the following:

#### Solution:-

$$=(-30) \div 10$$

#### Solution:-

$$= (50) \div (-5)$$

$$= -10$$

(c) 
$$(-36) \div (-9)$$

#### Solution:-

$$= (-36) \div (-9)$$



















(d) 
$$(-49) \div (49)$$

$$= (-49) \div 49$$

$$= -1$$

(e) 
$$13 \div [(-2) + 1]$$

## Solution:-

$$= 13 \div [(-2) + 1]$$

$$= 13 \div (-1)$$

$$= -13$$

# Solution:-

$$= 0 \div (-12)$$

$$= 0$$

$$= (-31) \div [(-30) + (-1)]$$

$$= (-31) \div [-30 - 1]$$

$$= (-31) \div (-31)$$

= 1

#### Solution:-

First we have to solve the integers with in the bracket,

$$= [(-36) \div 12]$$

$$= (-36) \div 12$$

$$= (-3) \div 3$$



















$$= (-3) \div 3$$

(i) 
$$[(-6) + 5)] \div [(-2) + 1]$$

The given question can be written as,

$$= [-1] \div [-1]$$

2. Verify that  $a \div (b + c) \neq (a \div b) + (a \div c)$  for each of the following values of a, b and c.

(a) 
$$a = 12$$
,  $b = -4$ ,  $c = 2$ 

#### Solution:-

From the question,  $a \div (b + c) \neq (a \div b) + (a \div c)$ 

Given, 
$$a = 12$$
,  $b = -4$ ,  $c = 2$ 

Now, consider LHS =  $a \div (b + c)$ 

Now, consider LHS =  $a \div (b + c)$ 

$$= 12 \div (-4 + 2)$$

Then, consider RHS =  $(a \div b) + (a \div c)$ 

$$= (12 \div (-4)) + (12 \div 2)$$

$$= (-3) + (6)$$

= 3

(b) 
$$a = (-10)$$
,  $b = 1$ ,  $c = 1$ 

From the question,  $a \div (b + c) \neq (a \div b) + (a \div c)$ 

Given, 
$$a = (-10)$$
,  $b = 1$ ,  $c = 1$ 

Now, consider LHS =  $a \div (b + c)$ 

$$= (-10) \div (1+1)$$

$$= (-10) \div (2)$$

Then, consider RHS =  $(a \div b) + (a \div c)$ 

$$= ((-10) \div (1)) + ((-10) \div 1)$$

$$= (-10) + (-10)$$

$$= -10 - 10$$

$$= -20$$

By comparing LHS and RHS

Hence, the given values are verified.

## 3. Fill in the blanks:

#### Solution:-

Let us assume the missing integer be x,

Then,

$$= 369 \div x = 369$$

$$= x = (369/369)$$

$$= x = 1$$

Now, put the valve of x in the blank.

$$= 369 \div 1 = 369$$

(b) 
$$(-75) \div ___ = -1$$

Let us assume the missing integer be x,

Then,

$$= (-75) \div x = -1$$

$$= x = (-75/-1)$$

$$= x = 75$$

$$= (-206) \div x = 1$$

$$= x = (-206/1)$$

$$= x = -206$$

Now, put the valve of x in the blank.

$$= (-206) \div (-206) = 1$$

# Solution:-

u - --icaina integer be X.

Let us assume the missing integer be x,

Then,

$$= (x) \div 1 = -87$$

$$= x = (-87) \times 1$$

$$= x = -87$$

Now, put the valve of x in the blank.

# Solution:-

Let us assume the

$$= x = (-1) \times 48$$

$$= x = -48$$

Now, put the valve of x in the blank.

$$= (-48) \div 48 = -1$$

## Solution:-

Let us assume the missing integer be x,

Then,

$$= 20 \div x = -2$$

$$= x = (20)/(-2)$$

$$= x = -10$$

Let us assume the missing integer be x,

Then,

$$= (x) \div 4 = -3$$

$$= x = (-3) \times 4$$

$$= x = -12$$

Now, put the valve of x in the blank.

$$= (-12) \div 4 = -3$$

4. Write five pairs of integers (a, b) such that  $a \div b = -3$ . One such pair is (6, -2) because  $6 \div (-2) = (-3)$ .

## Solution:-

Because,  $15 \div (-5) = (-3)$ 

Because,  $(-15) \div (5) = (-3)$ 

Because,  $18 \div (-6) = (-3)$ 

Because,  $(-18) \div 6 = (-3)$ 

Because,  $21 \div (-7) = (-3)$