

EXERCISE 1B

1. Divide:

(i) 117 by 9

(ii) (-117) by 9

(iii) 117 by (-9)

(iv) (-117) by (-9)

(v) 225 by (-15)

(vi) $(-552) \div 24$

(vii) (-798) by (-21)

(viii) (-910) ÷ 26

Solution:

(i) 117 by 9

= 117/9

It can be written as

 $= (13 \times 9)/9$

= 13

(ii) (-117) by 9

= -117/9

It can be written as

 $= (-13 \times 9)/9$

= -13

(iii) 117 by (-9)

= 117/-9

It can be written as

 $= (13 \times 9)/-9$

= -13

(iv) (-117) by (-9)

= - 117/-9 = 117/9

It can be written as

 $= (13 \times 9)/9$

= 13

(v) 225 by (-15)

= 225/(-15)

It can be written as

 $= (15 \times 15) / -15$

= -15

 $(vi) (-552) \div 24$

= - 552/ 24

It can be written as

 $= (-23 \times 24)/24$

= - 23

(vii) (-798) by (-21)

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= - 798/ - 21 = 798/21It can be written as = $(38 \times 21)/21$ = 38

(viii) $(-910) \div 26$ = -910/26 It can be written as = $(-35 \times 26)/26$ = -35

2. Evaluate:

(i) $(-234) \div 13$

(ii) $234 \div (-13)$

(iii) $(-234) \div (-13)$

(iv) $374 \div (-17)$

 $(v)(-374) \div 17$

 $(vi) (-374) \div (-17)$

 $(vii) (-728) \div 14$

(viii) $272 \div (-17)$

Solution:

(i) $(-234) \div 13$ = -234/13It can be written as = $(-18 \times 13)/13$ = -18

(ii) $234 \div (-13)$ = 234/-13It can be written as = $(18 \times 13)/-13$ = -18

(iii) $(-234) \div (-13)$ = -234/ - 13 = 234/13It can be written as = $(18 \times 13)/13$ = 18

(iv) $374 \div (-17)$ = 374/-17It can be written as = $(22 \times 17)/(-17)$ = -22

(v) $(-374) \div 17$ = -374/17 It can be written as = $(-22 \times 17)/(17)$



= -22

= -52

(vi)
$$(-374) \div (-17)$$

= $-374/-17 = 374/17$
It can be written as
= $(22 \times 17)/(17)$
= 22

(vii) $(-728) \div 14$ = -728/14It can be written as = $(-52 \times 14)/14$

(viii) $272 \div (-17)$ = 272/-17It can be written as = $(16 \times 17)/(-17)$ = -16

3. Find the quotient in each of the following divisions:

(i) 299 ÷ 23

(ii) 299 ÷ (-23)

(iii) (-384) ÷ 16

(iv) $(-572) \div (-22)$

 $(v) 408 \div (-17)$

Solution:

(i) $299 \div 23$ = 299/23It can be written as = $(23 \times 13)/23$ = 13

(ii) $299 \div (-23)$ = 299/-23It can be written as = $(23 \times 13)/-23$ = -13

(iii) $(-384) \div 16$ = -384/16 It can be written as = $(-24 \times 16)/16$ = -24

(iv) $(-572) \div (-22)$ = -572/-22 = 572/22It can be written as = $(26 \times 22)/22$



= 26

(v) $408 \div (-17)$ = 408/-17It can be written as = $(24 \times 17)/(-17)$ = -24

4. Divide:

(i) 204 by 17 (ii) 152 by – 19

(iii) 0 by 35

(iv) 0 by (-82) (v) 5490 by 10

(vi) 762800 by 100

Solution:

(i) 204 by 17 = 204/17It can be written as = $(12 \times 17)/17$ = 12

(ii) 152 by - 19= 152/-19It can be written as = $(8 \times 19)/-19$ = -8

(iii) 0 by 35 = 0/35 = 0

(iv) 0 by (-82) = 0/ -82 = 0

(v) 5490 by 10= 5490/10It can be written as = $(549 \times 10)/10$ = 549

(vi) 762800 by 100 = 762800/100 It can be written as = 7628

5. State, true or false:

(i) $0 \div 32 = 0$



(ii)
$$0 \div (-9) = 0$$

(iii)
$$(-37) \div 0 = 0$$

(iv)
$$0 \div 0 = 0$$

Solution:

- (i) True.
- (ii) True.
- (iii) False. It is not defined.
- (iv) False. It is not defined.

6. Evaluate:

(i)
$$42 \div 7 + 4$$

(ii)
$$12 + 18 \div 3$$

(iii)
$$19 - 20 \div 4$$

(iv)
$$16 - 5 \times 3 + 4$$

(v)
$$6 - 8 - (-6) \div 2$$

(vi)
$$13 - 12 \div 4 \times 2$$

$$(vii)\ 16+8 \div 4-2\times 3$$

(viii)
$$16 \div 8 + 4 - 2 \times 3$$

(ix)
$$16 - 8 + 4 \div 2 \times 3$$

$$(x) (-4) + (-12) \div (-6)$$

$$(xi)(-18) + 6 \div 3 + 5$$

(xii)
$$(-20) \times (-1) + 14 \div 7$$

Solution:

(i)
$$42 \div 7 + 4$$

It can be written as

$$=42/7+4$$

By further calculation

$$= 6 + 4$$

= 10

(ii)
$$12 + 18 \div 3$$

It can be written as

$$= 12 + 18/3$$

By further calculation

$$= 12 + 6$$

= 18

(iii) $19 - 20 \div 4$

It can be written as

$$= 19 - 20/4$$

By further calculation

$$= 19 - 5$$

= 14

(iv)
$$16 - 5 \times 3 + 4$$



It can be written as = 16 - 15 + 4By further calculation = 20 - 15= 5

(v) $6-8-(-6) \div 2$ It can be written as = 6-8-(-6/2)By further calculation = 6-8-(-3)So we get = 6-8+3 = 9-8= 1

(vi) $13 - 12 \div 4 \times 2$ It can be written as = $13 - 12/4 \times 2$ By further calculation = $13 - 3 \times 2$ = 13 - 6= 7

(vii) $16 + 8 \div 4 - 2 \times 3$ It can be written as $= 16 + 8/4 - 2 \times 3$ By further calculation $= 16 + 2 - 2 \times 3$ So we get = 16 + 2 - 6

= 16 + 2 -= 18 - 6= 12

(viii) $16 \div 8 + 4 - 2 \times 3$ It can be written as $= 16/8 + 4 - 2 \times 3$ By further calculation = 2 + 4 - 6So we get = 6 - 6= 0

(ix) $16-8+4 \div 2 \times 3$ It can be written as $=16-8+4/2 \times 3$ By further calculation $=16-8+2 \times 3$ So we get =16-8+6



Here = 22 - 8 = 14

(x) $(-4) + (-12) \div (-6)$ It can be written as = (-4) + (-12/-6)By further calculation = -4 + 2= -2

(xi) $(-18) + 6 \div 3 + 5$ It can be written as = (-18) + 6/3 + 5By further calculation = (-18) + 2 + 5So we get = -18 + 7= -11

(xii) $(-20) \times (-1) + 14 \div 7$ It can be written as $= (-20) \times (-1) + 14/7$ By further calculation $= (-20) \times (-1) + 2$ So we get = 20 + 2= 22