

EXERCISE 1.2

PAGE NO: 1.8

1. Divide:

(i) 102 by 17

(ii) -85 by 5

(iii) -161 by -23

(iv) 76 by -19

(v) 17654 by -17654

(vi) (-729) by (-27)

(vii) 21590 by -10

(viii) 0 by -135

Solution:

(i) Given 102 by 17

We can write given question as $102 \div 17$

$$102 \div 17 = |102/17| = |102|/|17| \text{ [by applying the mod]}$$

$$= 102/17 = 6$$

(ii) Given -85 by 5

We can write given question as $-85 \div 5$

$$-85 \div 5 = |-85/5| = |-85|/|5| \text{ [by applying the mod]}$$

$$= -85/5 = -17$$

(iii) Given -161 by -23

We can write given question as $-161 \div -23$

$$-161 \div -23 = |-161/-23| = |-161|/|-23| \text{ [by applying the mod]}$$

$$= 161/23 = 7$$

(iv) Given 76 by -19

We can write given question as $76 \div -19$

$$76 \div -19 = |76/-19| = |76|/|-19| \text{ [by applying the mod]}$$

$$= 76/-19 = -4$$

(v) Given 17654 by -17654

We can write given question as $17654 \div -17654$

$$17654 \div -17654 = |17654/-17654| = |17654|/|-17654| \text{ [by applying the mod]}$$

$$= 17654/-17654 = -1$$

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(vi) Given (-729) by (-27)

We can write given question as $(-729) \div (-27)$

$$\begin{aligned} (-729) \div (-27) &= |-729/-27| = |-729|/|-27| \text{ [by applying the mod]} \\ &= 729/27 = 27 \end{aligned}$$

(vii) Given 21590 by -10

We can write given question as $21590 \div -10$

$$\begin{aligned} 21590 \div -10 &= |21590/-10| = |21590|/|-10| \text{ [by applying the mod]} \\ &= 21590/-10 = -2159 \end{aligned}$$

(viii) Given 0 by -135

We can write given question as $0 \div -135$

$$0 \div -135 = 0 \text{ [because anything divided by 0 we get the result as 0]}$$



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