CHAPTER -1 INTEGERS | CLASS 7TH MATHS IMPORTANT QUESTIONS

IMPORTANT QUESTIONS

Question 1.
Fill in the blanks using < or >.
(a) -3 ..... -4
(b) 6 ..... -20
(c) -8 ..... -2
(d) 5 ..... -7
Solution:
(a) -3 > -4
(b) 6 > -20
(c) -8 < -2
(d) 5 > -7

Question 2.
Solve the following:
(i) (-8) × (-5) + (-6)
(ii) [(-6) × (-3)] + (-4)
(iii) (-10) × [(-13) + (-10)]
(iv) (-5) × [(-6) + 5]
Solution:
(i) (-8) × (-5) + (-6)
= (-) × (-) × [8 × 5] + (-6)
= 40 – 6
= 34

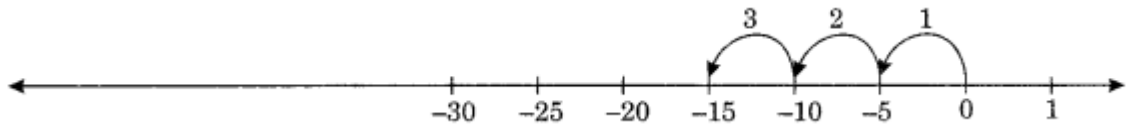
(ii) [(-6) × (-3)] + (-4)
= (-) × (-) × [6 × 3] + (-4)
= 18 – 4
= 14

(iii) (-10) × [(-13) + (-10)]
= (-10) × (-23)
= (-) × (-) × [10 × 23]
= 230

(iv) (-5) × [(-6) + 5]
= (-5) × (-1)
= (-) × (-) × 5 × 1
= 5

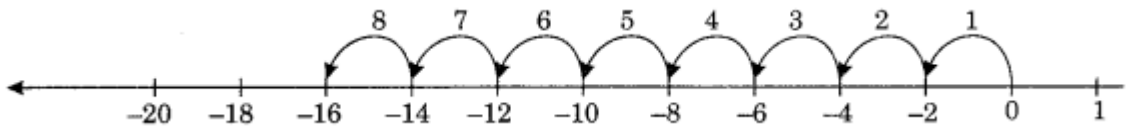
Question 3.
Starting from (-7) × 4, find (-7) × (-3)
Solution:
(-7) × 4 = -28
(-7) × 3 = -21 = [-28 + 7]
(-7) × 2 – -14 = [-21 + 7]
(-7) × 1 = -7 = [-14 + 7]
(-7) × 0 = 0 = [-7 + 7]
(-7) × (-1) = 7 = [0 + 7]
(-7) × (-2) = 14 = [7 + 7]
(-7) × (-3) = 21 = [14 + 7]

Question 4.
Using number line, find:
(i) 3 × (-5)
(ii) 8 × (-2)
Solution:
(i) 3 × (-5)



From the number line, we have
(-5) + (-5) + (-5) = 3 × (-5) = -15

(ii) 8 × (-2)



From the number line, we have
(-2) + (-2) + (-2) + (-2) + (-2) + (-2) + (-2) + (-2) = 8 × (-2) = -16

Question 5.
Write five pair of integers (m, n) such that m ÷ n = -3. One of such pair is (-6, 2).
Solution:
(i) (-3, 1) = (-3) ÷ 1 = -3
(ii) (9, -3) = 9 ÷ (-3) = -3
(iii) (6, -2) = 6 ÷ (-2) = -3
(iv) (-24, 8) = (-24) ÷ 8 = -3
(v) (18, -6) = 18 ÷ (-6) = -3