

- Write down a pair of integers whose:
(a) Sum is -4 (b) difference is -7
- Find each of the following products:
(a) $-15 \times (-9) \times 10$ (b) $-23 \times (-8) \times 12$
- Evaluate each of the followings:
(a) $-20 \div 10$ (b) $(-36) \div (-9)$ (c) $15 \div [(-6) + 1]$ (d) $[-48 \div (-12)] \div 4$
- Simplify using suitable properties:
(a) $-6 \times (-47) \times (-95)$ (b) $34 \times (-42) + (-42) \times (-38)$ (c) $-15 \times (-28)$
- If a shopkeeper sell a hat, he incur a loss of 80 paise per transaction, but when he sell a cap he earn a profit of ₹2 per transaction. If he sells only caps and hats, then:
(a) Yesterday he booked a loss of ₹8, if he sold only 55 caps, how many hats did he sell yesterday?
(b) Today he booked neither a profit nor a loss, if he sold only 55 caps, how many hats must he has sold?
- Ranjeeta scored 23, -30, 35, -15 and 28 in five online tests in the final term. What is her total score at the end of the term?
- The temperature in Manipur on Monday was -8°C . Tuesday's temperature was 4°C lower. If the temperature rose by 6°C on Wednesday. What was the exact temperature on Wednesday?
- Verify the followings:
(a) $16 \times [5 + (-2)] = [16 \times 5] + [16 \times (-2)]$
(b) $-25 \times [-8 + (-6)] = [-25 \times (-8)] + [-25 \times (-6)]$
- In a wrestling match, the scores of player A and player B in four bouts were -30, 20, 50, 0 and 50, 20, -30, 25 respectively. Who scored more?
- A chiller with a specific cooling process requires that temperature is 60°C . at start of the process and it cools at a rate of 7°C every hour. What will be the reading on the thermometer exactly 11 hours after the process begins?
- An elevator descends into a mine shaft at the rate of 4m/min. if the descent starts from 10 metre above the ground level will it take to reach -230 m ?
- Verify that $a \div (b + c) \neq (a \div b) + (a \div c)$ for each of the following values of a, b & c
(a) $a = 10, b = -6, c = 4$
(b) $a = -14, b = 2, c = 2$