Name:

Date:

Multiplication of Integers

Q1. $(-51) \times (-17)$ is same as $(-17) \times (-51)$. True/False Sol.

Q2. Write a pair of integers whose product is – 12 and whose difference is 7. Sol.

Q3. A cold warehouse requires that the temperature to be lowered from 38°C at the rate of 6°C every hour. What will be the temperature 8 hours after the process begins?

Sol.

Q4. A company earns a profit of rupees 8000 per truck sold and loss of rupees500 per tractor. If the company sells 3,000 trucks in a month and 1000tractor in a month. What is its profit and loss?

Sol.

<u>Answers</u>

Multiplication of Integers

Q1. $(-51) \times (-17)$ is same as $(-17) \times (-51)$. True/False

Sol. True

- Q2. Write a pair of integers whose product is 12 and whose difference is 7
- Sol. There are few pairs of integers whose product is 12.

But difference of -3 and 4 or -4 and 3 is 7. So the required pair of integers is -3, 4 and -4, 3.

- Q3. A cold warehouse requires that the temperature to be lowered from 38°C at the rate of 6°C every hour. What will be the temperature 8 hours after the process begins?
- Sol. Initial temperature = 38°C Change in temperature per hour = -6°C Change in temperature after 8 hrs. = -6 x 8 = -48°C Final temperature = 38°C + (-48°C) = -10°C
- Q4. A company earns a profit of rupees 8000 per truck sold and loss of rupees1000 per tractor. If the company sells 30 trucks in a month and 10 tractorin a month. What is its profit and loss?
- Sol. Profit earned by the company = $(+8000) \times 30 = +240000$ Loss suffered by the company = $(-1000) \times 10 = -10000$ Total profit earned = 240000 + (-10000) = Rupees 230000