CREST

Olympiads

#CRESTInnovator

CREST Mathematics Olympiad (CMO)
Worksheet for

Class 6

Worksheet on Number System and Integers
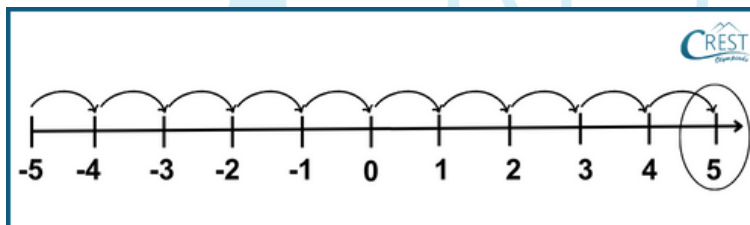
1. **Which alphabet gives the integer −5 if H is +10?**
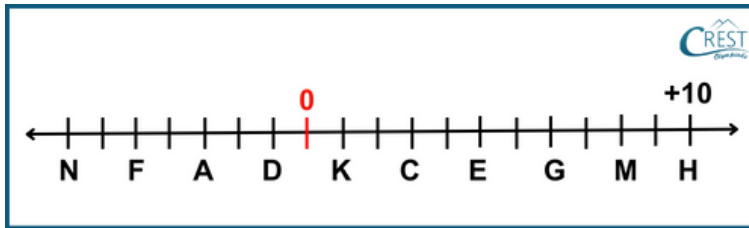
   a. D
   b. F
   c. M
   d. O

2. **The temperature in the room was 6.45°C this midnight. After five hours, it was 8.19°C and then the temperature was −5.37°C after four hours. What was the temperature difference after five and nine hours?**

   a. 2.82°C
   b. 3.56°C
   c. 13.56°C
   d. 13.65°C

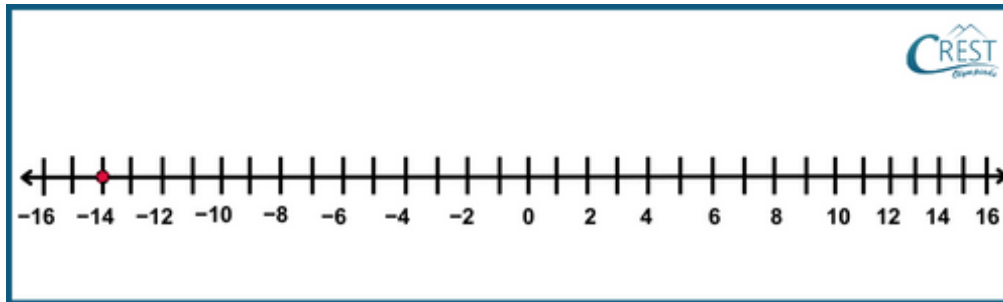3. **Which integer is 13 less than the integer marked on the number line?**

   a. 8
   b. 18
   c. -8
   d. -18

4. **An eggplant farm grows 900 eggplants and another eggplant farm grows 1050 eggplants in a day. How many eggplants were harvested in a week?**
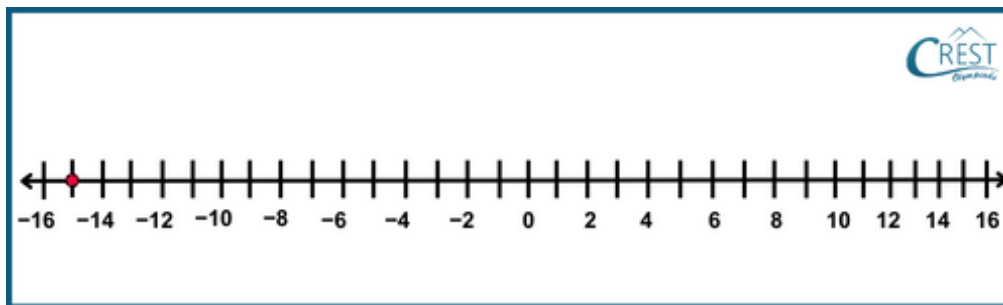
a. 10650
b. 11650
c. 12650
d. 13650

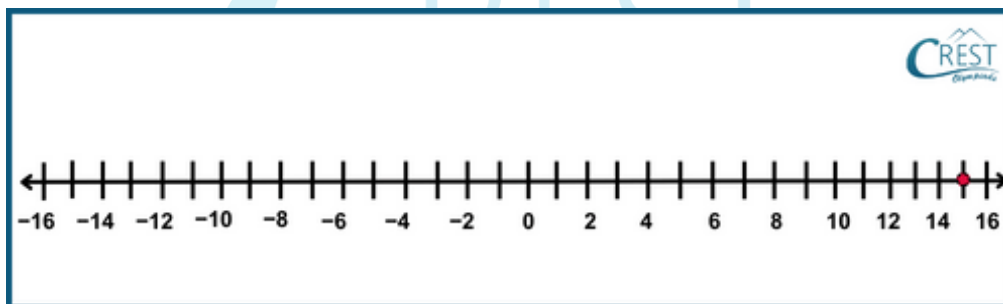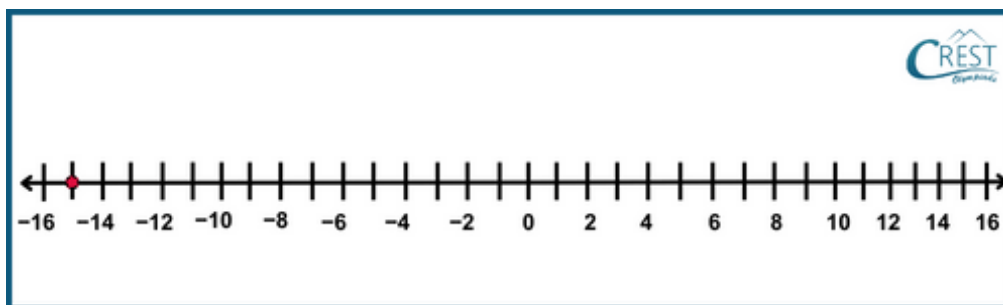**5. Which of the following number lines represent 7 less than −8?**

a.

b.

c.
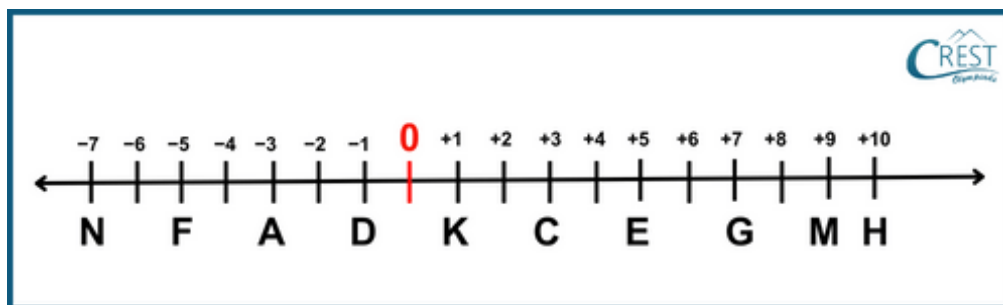

d.

Answer Key

1. b - F

   Explanation: Alphabet F gives the integer −5 which is shown as

2. c - 13.56°C

   Explanation: Temperature after five hours = 8.19°C
   Temperature after nine hours = −5.37°C
   Temperature difference after five and nine hours = 8.19°C – (−5.37°C)
   $$= 8.19°C + 5.37°C$$
   $$= 13.56°C$$

3. c - -8

   Explanation: Integer marked on the number line = 5
   Integer which is 13 less than the integer marked on the number line = 5 − 13
   $$= − 8$$

4. d - 13650

   Explanation: Number of eggplants grown by one eggplant farm in a day = 900 eggplants
   Number of eggplants grown by another eggplant farm in a day = 1050 eggplants
   Total eggplants were harvested in a day = (900 + 1050) eggplants
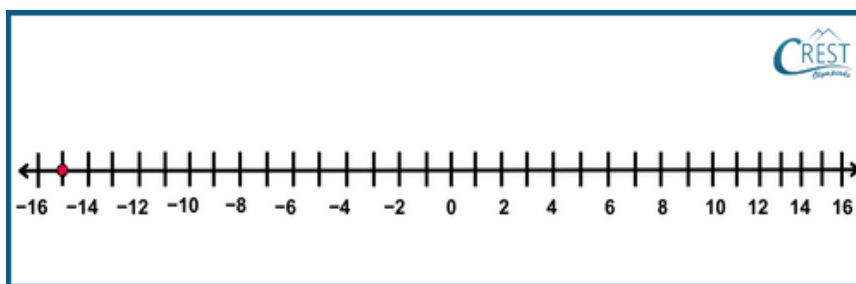   Total eggplants were harvested in a week = 7 × (900 + 1050)
   $$= 7 × 900 + 7 × 1050$$

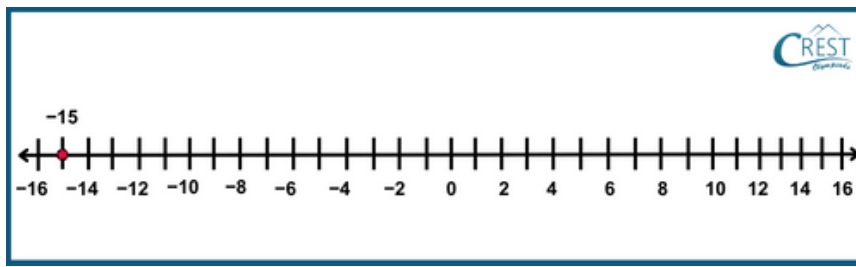   [Using distributive property]

   $$= 6300 + 7350$$
   $$= 13650 \text{ eggplants}$$

5. b -

Explanation: 7 less than −8 = −8 − 7 = −15
This number line shows −15.

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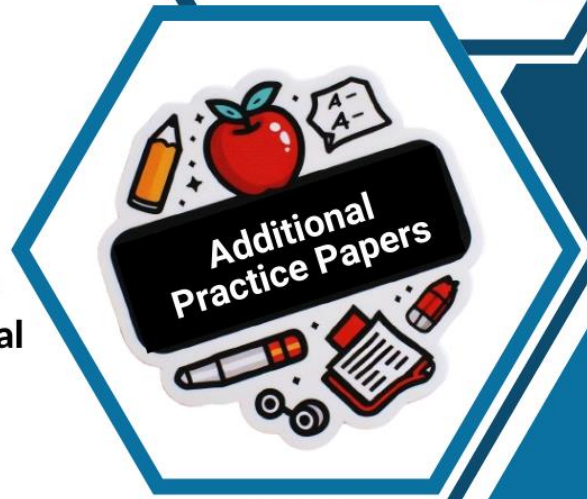2. Go to Dashboard -> Additional Practice -> Buy

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