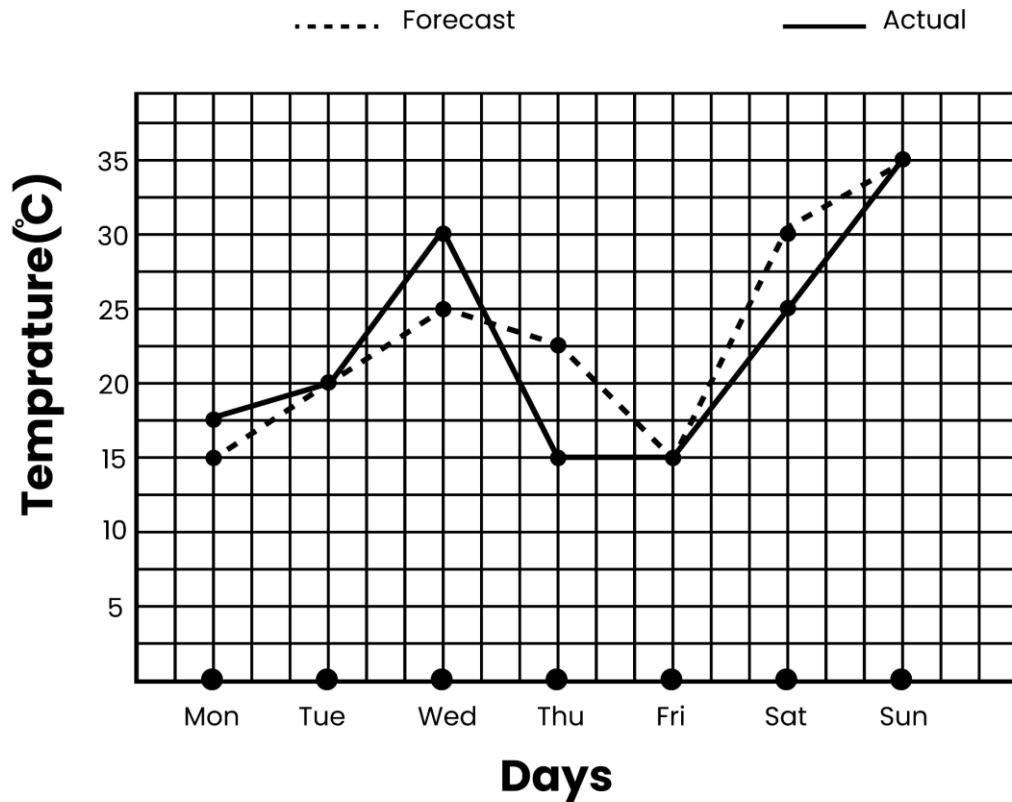


1. The altitude of a rhombus whose area is 175 sq cm and perimeter is 100 cm is ? (1)
2. If the volume of a right circular cylinder is 6160 cube cm , its radius is 14 cm , then find its height . (1)
3. If  $x87$  is divisible by 9 , then the least value of  $x$  is ? (1)
4. The scientific notation for the number 0.0000000005748 (after point nine zero)is? (1)
5. The SP of an article is ₹ 150 and gain is 30 .Find gain % . (1)
6. Find the difference between the CI and SI on ₹350000 for 2 years at 13% per annum compounded annually . (3)
7. The radius and height of a cylinder are in ratio 7:2 .If the volume of the cylinder  $8316 \text{ cm}^3$  , find the total surface area of the cylinder . (3)
- 8.



The following graph shows the temperature forecast and the actual temperature for each day of the week.

- (a) On which days was the forecast temperature the same as the actual temperature?
  - (b) What was the maximum forecast temperature during the week?
  - (c) What was the minimum actual temperature during the week?
  - (d) On which day did the actual temperature differ the most from the forecast temperature?
- (3)