

## YEAR 8 MATHEMATICS WEEK 3 2020 (TERM 2)

**Year: 8**

**Date: Monday 1 June 2020**

**STRAND: NUMBERS**

**TOPIC: Ratio**

**LESSON OUTCOME:** At the end of this lesson student(s) should be able to calculate rise and fall of temperature.

**Instructions: Hi dear Parents/Guardians and students** - In this Lesson students are going to calculate rise and fall of temperature by doing the selected questions for **Exercise 2.11**.

*[ Note that all the Quizzes/Test and or Assignment will be based on the selected questions for each exercise. These lessons are designed for **one hour per Lesson**. ]*

**What to do:** Do the following selected questions

**Exercise 2.11: Q1; Q3; Q4**

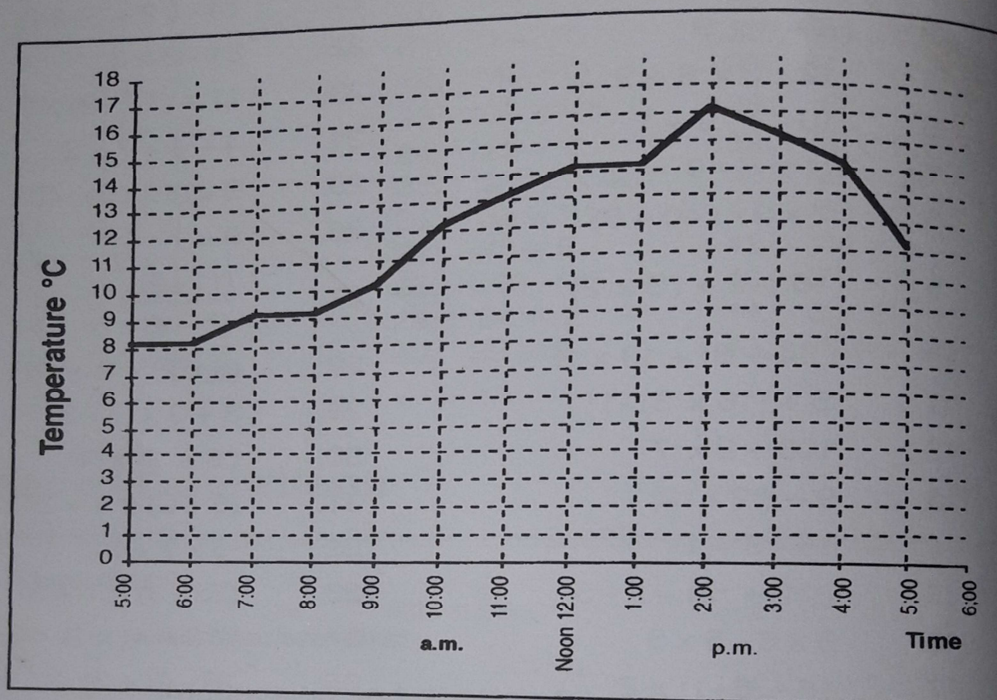
**Solutions:** Solutions will be available online via

<https://www.facebook.com/centralschoolemergencyforum/posts/108720557434149>

## Temperature

Temperatures are measured in degrees Celsius ( $^{\circ}\text{C}$ ).

For example look at the graph below.



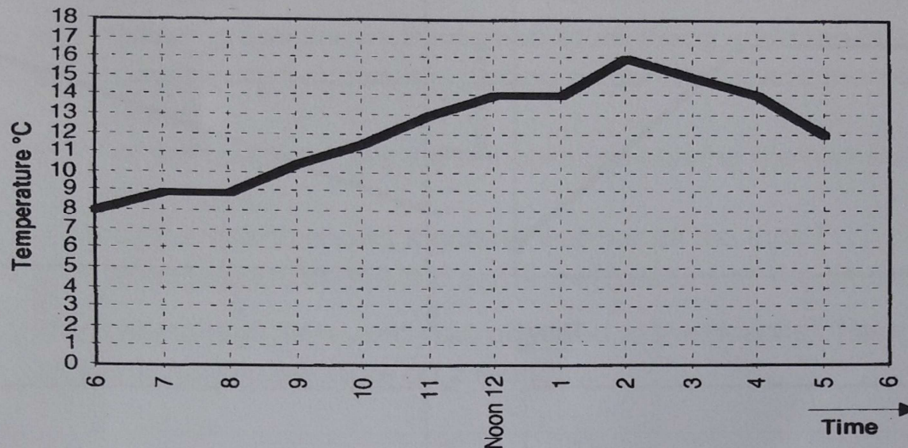
- Use the graph to find the temperature at:
  - 9 a.m.
  - 4 p.m.
- What was the highest temperature reached?
- Calculate the difference in temperature between: 6 a.m and noon
- At what time was the temperature  $15^{\circ}\text{C}$ ?

Answers:

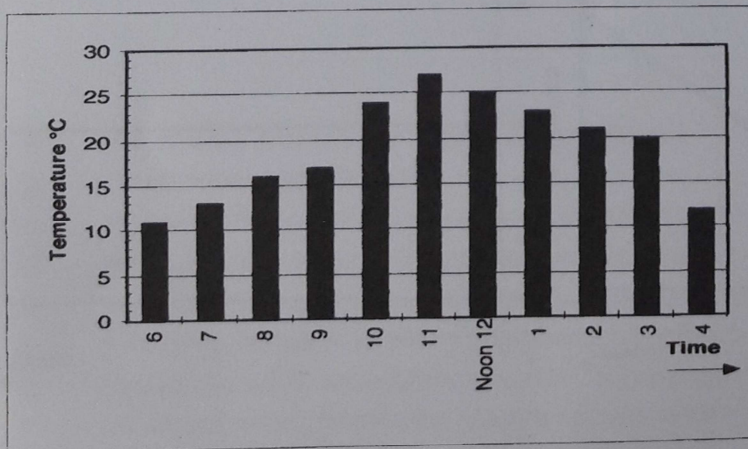
- $10^{\circ}\text{C}$
  - $14^{\circ}\text{C}$
- $16^{\circ}\text{C}$
- $14^{\circ}\text{C} - 8^{\circ}\text{C} = 6^{\circ}\text{C}$
- The temperature was  $15^{\circ}\text{C}$  at 1:30 p.m and at 3 p.m

**EXERCISE 2.11**

1. The graph below shows the temperature of a place in Summer. Use the graph to find answers to the following questions.



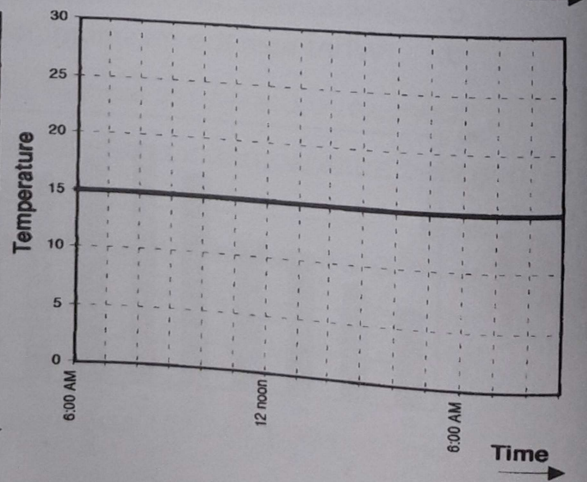
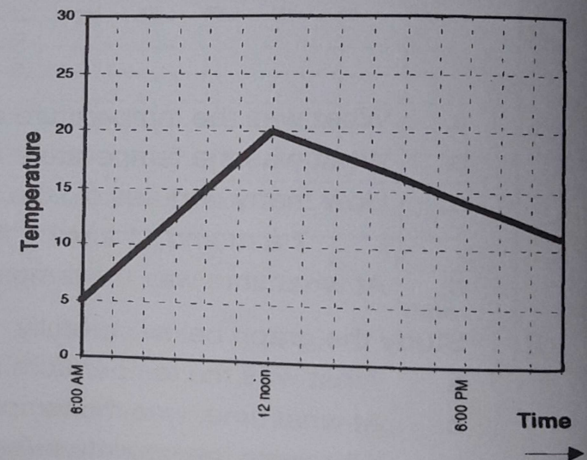
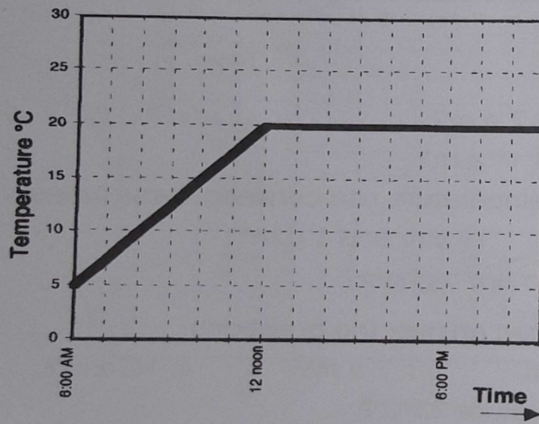
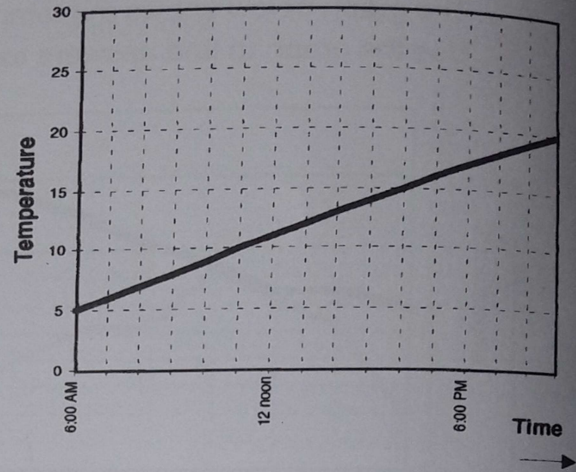
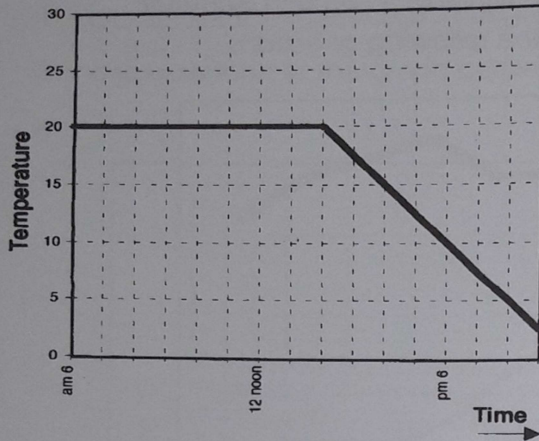
- What was the temperature at 7 a.m?
  - What was the temperature at 11 a.m?
  - How many degrees did the temperature rise between these times:
    - 7 a.m and 11 a.m?
    - 11 a.m and 1 p.m?
  - At what time was the temperature highest?
2. Study the graph below carefully, then answer the questions.
- What was the temperature at:
    - 7 a.m?
    - 10 a.m?
  - At what time, was the temperature 23°C?
  - What was the maximum (highest) recorded temperature?
  - What was the minimum (lowest) recorded temperature?



- How many degrees did the temperature rise between 6am?



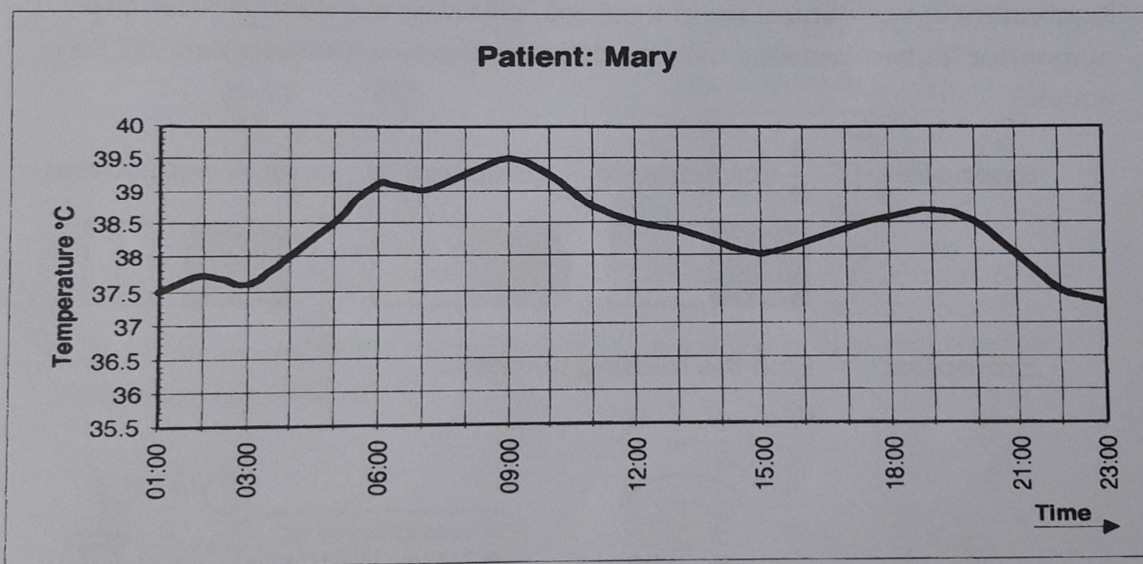
3. Here are six temperature graphs.



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Study the six graphs on the previous page and answer the following questions.

- Which graph shows the temperature rising at first, then staying the same?
  - Which graph shows the temperature rising and then falling?
  - Which graph shows it is getting colder at first and then getting hotter?
  - Which graph shows the temperature staying the same at first and then falling?
  - Which graph shows it getting warmer all the time?
  - Which graph shows the same temperature all the time?
4. Mary had a high fever and was admitted to the hospital. Here is a graph showing her temperature on a Monday.



- What was Mary's temperature at 06:00?
- What was it at 12:00?
- At 04:00 Mary's temperature was 38.0°C. At what other time was it 38°C?
- At which times did Mary's temperature start to fall? (four different times)
- At what times did Mary's temperature start to rise? (four times)
- Roughly, what was Mary's highest temperature?
- Roughly, what was Mary's lowest temperature?
- At about what time was Mary's temperature highest?