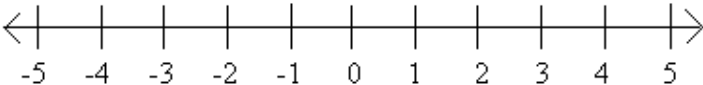
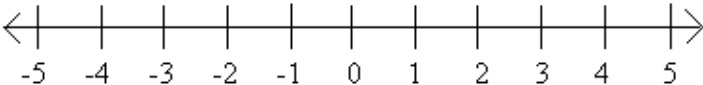


**Solutions:**

1.	<p>Use a directed number to indicate the magnitude and direction of each number.</p> <table border="1" data-bbox="337 436 1040 583"> <tbody> <tr> <td>5 meters below sea level</td> <td>-5m</td> </tr> <tr> <td>5 units to the north</td> <td>+5units</td> </tr> <tr> <td>Deposit \$100 in your personal account</td> <td>+\$100</td> </tr> <tr> <td>Decrease the temperature by 15°C</td> <td>-15°C</td> </tr> </tbody> </table>	5 meters below sea level	-5m	5 units to the north	+5units	Deposit \$100 in your personal account	+\$100	Decrease the temperature by 15°C	-15°C
5 meters below sea level	-5m								
5 units to the north	+5units								
Deposit \$100 in your personal account	+\$100								
Decrease the temperature by 15°C	-15°C								
2.	<p><math>\{3, \pi, 8, -0.8\}</math></p> <p>Two natural numbers from the list are <b>3 and 8</b></p> <p>Ascending order: <math>\{-0.8, 3, \pi, 8\}</math></p>								
3.	<p>How much did he spend on the vaccine?</p> $\frac{1}{4} \times \$100 = \$25$ <p>How much did he spend on the sanitizers?</p> $\frac{1}{2} \times \$75 = \$37.50$								
4.	<p><b>Total drop in the water level</b></p> $24\text{cm} + 10\text{cm} = 34\text{cm}$								
5.	<p><math>\{x: -3 \leq x &lt; 1, x \in I\}</math></p>  <p><math>\{x: -2 \leq x &lt; 2, x \in R\}</math></p> 								

Sangam SKM College – Nadi

Solution – Week 1

Year 9

Mathematics

1. Express the following in their simplest ratios.

(a)  $\frac{20}{5} : \frac{12}{3}$

(b)  $\frac{25}{5} : \frac{15}{3}$

(c)  $\frac{10}{1} : \frac{20}{2}$

2. The fraction  $\frac{10}{25}$  when expressed in the simplest ratio is equal to

- A. 2:5
- B. 5:2
- C. 1:4
- D. 4:1

2. Coconut College has 540 students and 18 teachers. Find the student-to-teacher ratio and write it as a simplified fraction.

[ Answer ]

$$\begin{aligned} \text{student : teacher} &= 540 : 18 \\ &= \frac{540}{18} : \frac{18}{18} \text{ (Divide by 18 the highest common factor)} \\ &= 30 : 1 \end{aligned}$$