1. By using calculator, evaluate the following:

(a) \( \frac{40.4}{0.32 \times 50} \), giving your answer to two decimal places. 

[2]

(b) \( 0.24^2 + \sqrt[3]{0.512} \), giving your answer to two decimal places.

[2]

(c) \( \frac{304573 - 480796 + 235600}{386 \times 29} \), giving your answer correct to three significant figures.

[2]

(d) \( 97 \frac{2}{7} - 12 \frac{1}{6} \times 3 \frac{1}{5} \)

[2]

2. Find the sum of the greatest and smallest among the following four decimals 11.807, 11.78, 11.7 and 11.708 and correct it to four significant figures.

[3]
3. Here is a list of number:

\[ 8, 11, 13, 17, 23, 30, 38, 42 \]

(a) Which numbers are primes? \[1\]

(b) Which numbers are multiples of 2? \[2\]

(c) What is the LCM of 11 and 13? \[2\]

4. Suppose you had $3458 in your wallet. You spent $361, $86, $405 and $299 on 4 items during a shopping trip. Estimate the amount of money left by rounding off each given value to the nearest $100. \[2\]

5. This table shows admission prices at the movies.

<table>
<thead>
<tr>
<th></th>
<th>Monday, Wednesday, Thursday, Sunday</th>
<th>Friday, Saturday</th>
<th>Tuesday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult</td>
<td>$16</td>
<td>$16.50</td>
<td>$10</td>
</tr>
<tr>
<td>Child</td>
<td>$13</td>
<td>$13.50</td>
<td>$8</td>
</tr>
</tbody>
</table>

Two adults and three children intend to go to the movies.

How much would they save if they go on a Tuesday rather than a Wednesday? \[3\]
(a) How many of the buses stop at station D?

(b) How many of the buses stop at both stations B and E?

(c) How long does it take the 13 55 bus to reach station E?

(d) What is the longest time it takes for a bus to travel from station A to station F?

(e) A man arrives at station B at 14:18. At what time will he arrive at station E if his bus is on time?
7. Convert the following:
   (a) 29 hours 57 minutes to minutes.

   (b) 352 grams to milligrams.

   (c) 4.5 hours to seconds.

   (d) 64.5 m to km.

8. At 10 pm, the temperature at the foot of the mountain was 18°C and
   the temperature at the peak was -9°C. Calculate the temperature
   difference.

9. A textbook is 14 mm thick and has a mass of 370 g.
   (a) How high is a pile of 42 of these textbooks in centimetres?
(b) What is the total mass of a pile of 42 of these textbooks in kilograms?

(c) If each textbook costs $3.65, how much will 42 books cost? Give your answer correct to the nearest dollar.

10. When a water tank is \(\frac{3}{4}\) full, it holds 396 l of water. How much would the tank hold when it is
(a) half full,

(b) full?