1. Look at these numbers

15  16  17  18  22  23  24  26

Using only the numbers above, write down

(a) 2 prime numbers,

Answer (a): ........................................ [1]

(b) multiples of 6,

Answer (b): ........................................ [1]

(c) factors of 48.

Answer (c): ........................................ [2]

2. Write the correct number to go in each box.

(a) half of 90 =

[1]

(b) \[ \frac{7}{12} - \square = \frac{1}{4} \]

[2]

3. (a) Shade \( \frac{2}{3} \) of the following shape.

[2]
(b) Find the Lowest Common Multiple of 5, 15 and 25

Answer (b): ................................. [1]

(c) Evaluate $9 \times 7 - 42 \div 6$

Answer (c): ................................. [1]

4. (a) Express 700 as a product of prime factors in index notation.

Answer (a): ................................. [2]

(b) Here are two thermometers. They show two different temperatures.

What is the difference between the two temperatures?

Answer (b): ................................. °C [2]
5. (a) Simplify

\[17e + 16 - 4e - 3\]

Answer (a): ........................................... [1]

(b) Solve

\[7y - 4 = 2y + 16\]

Answer (b): ........................................... [1]

(c) Evaluate the following expressions when \(r = 4\), \(e = 5\) and \(x = 6\)

(i) \(5r + 3x + 2e\),

Answer (c)(i): ........................................... [1]

(ii) \(4e^2\)

Answer (c)(ii): ........................................... [2]

6. (a) Estimate \(\sqrt{49.5}\)

Answer (a): ........................................... [1]

(b) Express 28.065

(i) to 1 decimal place,

Answer (b)(i): ........................................... [1]

(ii) to 1 significant figure.

Answer (b)(ii): ........................................... [1]

(c) Write \(\frac{5}{6}\) as recurring decimals

Answer (c): ........................................... [1]
7. (a) The marked price of a bicycle is $300. A discount of 20% is given. Calculate its selling price.

Answer (a): $.......................... [2]

(b) Hanif bought a piece of land for $120 000. Then he sold it for $150 000. What was his profit or loss percent?

Answer (b): .....................% [2]

8. (a) From the diagram, what size is angle A?

Answer (a): .........................° [1]

(b) Construct angle bisector of \(\angle ABC\).
(c) What is the name of 6 - sided polygon?

Answer (c): ................................. [1]

9. (a) Circle 25% of the dots.

(b) Express \( \frac{9}{20} \) as a percentage.

Answer (b): .................................% [1]

10. (a) Draw the clock hands to show the time in 1 hour 19 minutes.

(b) Danny bought a salad sandwich, a fruit juice and an ice-cream from the canteen.

How much change should he get if he paid with $10.00?

Answer (b): $.............................. [2]
11. (a) Divide 0.24 by 0.8.

Answer (a): ................................ [2]

(b) Find the product of 0.47 and 3.3.

Answer (b): ................................ [2]

(c) \((-5)^2 + (-2)^3\)

Answer (c): ................................ [2]

(d) List the following in descending order.

\(0.045, \frac{1}{4}, \frac{1}{2}, 0.23, 0.31\)

Answer (d): ................................................................. [2]

12. (a) A bank pays interest at 3% per annum. Hassan has $2400 in the bank. How much interest will he receive at the end of 2 years?

Answer (a): $......................... [2]

(b) Siti, Farah and Daud shared 90 rambutans in the ratio 4:5:6. How many rambutans would Farah receive?

Answer (b): ................. rambutans [2]
13. Paul asked some shoppers how they had travelled to a supermarket. He recorded their answers on a tally chart and then drew a pictogram to show his results.

**Travelling to the Supermarket**

- Car
- Bus
- Walk
- Bicycle
- Other

(a) Copy and complete the following to show how Paul’s tally chart may have looked.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Tally</th>
</tr>
</thead>
<tbody>
<tr>
<td>Car</td>
<td></td>
</tr>
<tr>
<td>Bus</td>
<td></td>
</tr>
<tr>
<td>Walk</td>
<td></td>
</tr>
<tr>
<td>Bicycle</td>
<td>🚲إجراء</td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
</tbody>
</table>

(b) Which mode of transport was used by 12 people?

Answer (b): ........................................... [1]
14. In the diagram below, find the

(a) perimeter

(b) area

Answer (a): .........................m [2]

Answer (b): .........................m² [2]