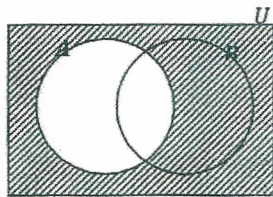
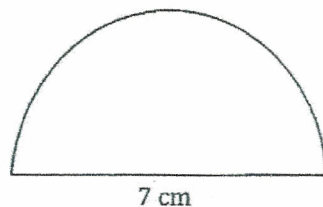


Answer all questions Show your working where possible

1. Simplify the following:
 - (i) $1 - x \times 0$ [2]
 - (ii) $4\frac{7}{12} - 3\frac{5}{8} + 1\frac{2}{3}$ [3]
 - (iii) $8 \times 3 - 17 + 15 \div 5$ [3]
 - (iv) $90 \div 0.03$ [3]
 - (v) $7x - 2y - 5x - 4y$ [3]
 - (vi) $x \div x^2$ [3]
 - (vii) $7 - (-4) - 3$ [3]
2. Find the L.C.M of 5, 6 and 8. [2]
3. Find the average (arithmetic mean) of: 35, 46, 42, 9 [3]
4. In a Maths textbook $\frac{2}{5}$ covers arithmetic and $\frac{3}{7}$ covers Algebra. The remainder is Geometry. If the book has 210 pages, how many pages cover Geometry? [5]
5. Find the H.C.F of 45 and 60. [2]
6. Convert
 - (i) 10101_2 to base 10. [3]
 - (ii) 39_{10} to base 8. [3]
7. Given that $Y = \{0, 1, 3\}$, determine the possible subsets. [2]
8. Identify the shaded area.



9. Given the following sets:
 $A = \{a, t, e\}$, $B = \{t, e, a, m\}$, $C = \{e, a, t\}$ and $D = \{m, a, t\}$
 Identify:
 - (a) Equal sets [2]
 - (b) Equivalent sets [2]
10. Find the discount price if a discount of $12\frac{1}{2}\%$ is given on \$280. [5]
11. The cost of a vehicle was \$ 68 000.00 cash or a deposit of \$8 000 and 24 monthly payments of \$2 750 each. Find the difference between the instalment price and the cash price. [5]
12. Calculate the third angle of a triangle if two angles measure 35° and 60° . [2]
13. Calculate the perimeter of the shape shown if the semi-circle has a diameter of 7 cm.



Use $\pi = \frac{22}{7}$

[5]

14. A boy is 5 yrs old. His father is four times his age. In x yrs. Time how old will his father be?

15. The students observing cars at the school gate noted the following colours of 25 cars:

red |||| white $\text{||||} \text{|||}$ blue || silver $\text{||||} \text{||||}$

- (i) Show the results in a neat table using the headings below.

Colour	Tally Marks	Frequency

[4]

- (ii) Illustrate the results in the form of a bar chart.

[4]

- (iii) Which colour was the most popular?

[1]

- (iv) What percentage of the cars was white?

[2]