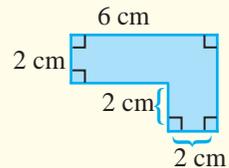
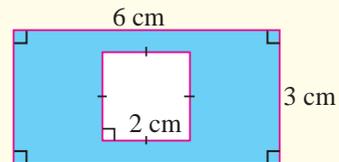


## Revision Exercise - 2

- (1) (i) Find the value of  $6.785 \times 1000$ .  
 (ii) Simplify  $3\frac{1}{3} - 1\frac{1}{4}$ .  
 (iii) Find the value of  $2a + 5$ , if  $a = 4$ .  
 (iv) Express 5.075 g, in grammes and milligrammes.  
 (v) Solve  $2x + 5 = 7$ .  
 (vi) Simplify  $96 \text{ cm } 6 \text{ mm} \div 7$ .  
 (vii) Find the area of the given figure.



- (viii) Find the volume of a cube of side length 5 cm.  
 (ix) Write  $1\frac{5}{7}$  as an improper fraction.  
 (x) Write  $\frac{17}{5}$  as a mixed number.  
 (xi) Find the area of the shaded region.



- (xii) Find the side length of a square land of perimeter 22 m.  
 (xiii) Find the breadth of a rectangular land of area  $24 \text{ m}^2$  and length 8 m.

- (2) (a) Fill in the blanks using  $<$  or  $>$  appropriately.

(i)  $\frac{3}{4} \dots \frac{1}{4}$       (ii)  $\frac{1}{4} \dots \frac{5}{12}$       (iii)  $3\frac{5}{8} \dots 3\frac{1}{3}$

- (b) Simplify the following.

(i)  $3\frac{5}{12} + \frac{7}{12}$       (ii)  $2\frac{2}{7} + \frac{9}{14}$       (iii)  $2\frac{5}{8} - 1\frac{1}{8}$       (iv)  $3\frac{7}{8} - 2\frac{2}{3}$

- (c) Dileepa and Sithumina sat for a multiple choice question paper. From the total number of questions, Dileepa answered  $\frac{5}{8}$  correctly and Sithumina answered  $\frac{3}{4}$  correctly. Who answered more questions correctly? Give reasons for your answer.  
 (d) In a test, Rahuman received 0.36 of the total marks and Rahuldev received  $\frac{9}{25}$  of the total marks. Show that Rahuman and Rahuldev received the same amount of marks.

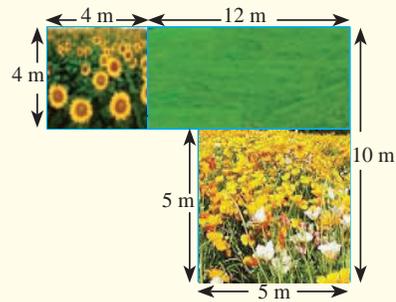
- (3) (a) Convert the following fractions and mixed numbers into decimals.

(i)  $\frac{648}{1000}$       (ii)  $\frac{6}{20}$       (iii)  $\frac{7}{8}$       (iv)  $2\frac{1}{4}$

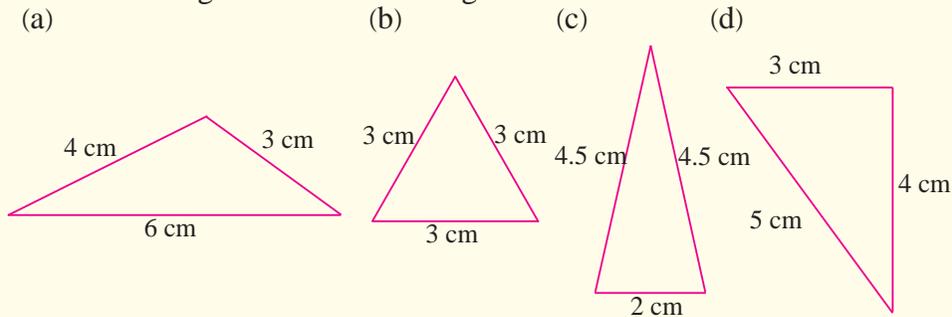
- (b) Simplify.

(i)  $0.875 \times 100$       (ii)  $3.25 \times 6$       (iii)  $0.005 \times 22$   
 (iv)  $127.5 \div 10$       (v)  $24.68 \times 8$       (vi)  $13.75 \div 1000$

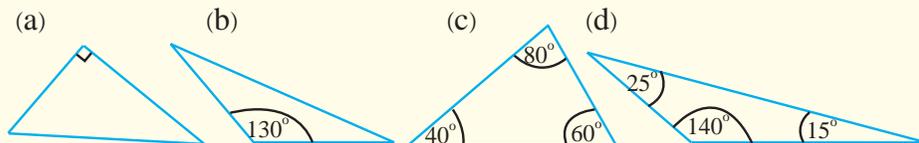
- (4) The given figure shows a home garden.
- Find the perimeter of the garden.
  - Find the area of the garden where flowers are grown.
  - Find the total area of the garden.



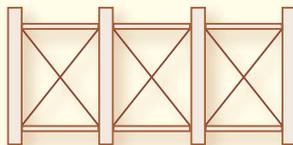
- (5) (i) Each of the following triangles state whether it is an equilateral triangle, an isosceles triangle or a scalene triangle.



- (ii) Each of the following triangles state whether it is an acute angled triangle, a right angled triangle or an obtuse angled triangle.

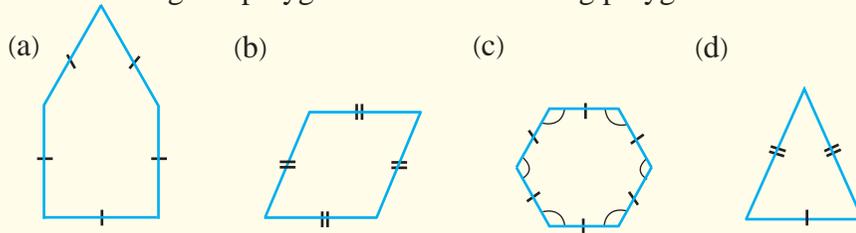


- (6) The gate shown in the figure has 4 vertical posts. Each is of height 1.75 m.

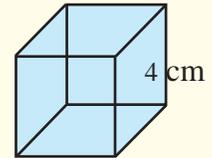


- If the posts are made from a metal pipe, find the total length of the pipe.
  - The total length of the metal bar used to cut the 6 horizontal bars was 8.4 m. Find the length of one horizontal bar.
- (7) (a) (i) Draw a concave polygon with 1 reflex angle and 6 sides.

(ii) Select the regular polygon from the following polygons.

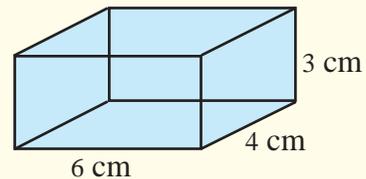


- (8) (a) (i) Find the volume of the given cube.  
 (ii) Calculate the volume of a cube of length twice the length of the above given cube.



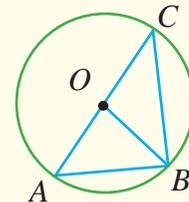
(b) A cuboid is shown in the figure.

- (i) Find the volume of this cuboid.  
 (ii) What is the height of a cuboid of volume  $96 \text{ cm}^3$ , if its length and breadth are the same as those of the cuboid shown in the figure?



(9)  $O$  is the centre of the circle in the figure.  $AC$  is a straight line.

- (i) What is the special name given to  $AC$  ?  
 (ii) What is the special name given to the length  $OB$  ?  
 (iii) Name two isosceles triangles in the figure.  
 (iv) If  $AB = 6 \text{ cm}$ ,  $BC = 8 \text{ cm}$  and the radius of the circle is  $5 \text{ cm}$ , find the perimeter of each of the triangles  $OBC$ ,  $AOB$  and  $ACB$ .



(10) Information on the quantities of milk bought by three households during a week from a milkman is given below.

- (i) Household  $A$  buys  $1 \text{ l } 500 \text{ ml}$  of milk per day on all seven days of the week. Find the total quantity of milk that household  $A$  buys during a week.  
 (ii) Household  $B$  buys the same amount of milk on each of the seven days of a week. The total amount of milk household  $B$  buys during a week is  $12 \text{ l } 250 \text{ ml}$ . Find the amount of milk household  $B$  buys per day.  
 (iii) Find the total quantity of milk bought during a week by household  $C$ , if  $7 \text{ l } 500 \text{ ml}$  of milk in total is bought during the five week days and  $2 \text{ l } 750 \text{ ml}$  of milk in total is bought on Saturday and Sunday.  
 (iv) During the school holidays, the milkman is asked to deliver  $250 \text{ ml}$  more milk per week than the normal amount he delivers. If an equal amount of milk is delivered each day, find the amount he delivers to household  $C$  per day during the holidays.

- (11) A certain brand of biscuits is introduced to the market in packets.
- The mass of a biscuit is 8 g 250 mg. If a packet contains 25 biscuits, find the total mass of the biscuits in a packet.
  - The mass of the empty packet is 760 mg. Find the total mass of a packet of biscuits.
  - 12 such packets of biscuits are packed in a box of mass 40 g, and such boxes containing packets of biscuits are distributed to wholesale dealers. Find the total mass of one such box that is bought by a wholesale dealer.

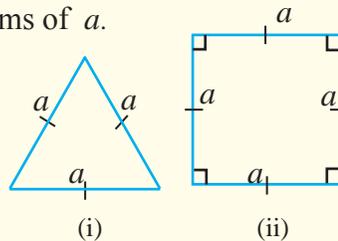
- (12) (a) (i) Solve  $9x + 7 = 97$ .
- (ii) When Nimal gave Rs. 200 to buy 8 books, he received a balance of Rs. 40. Construct an equation using this information, by taking the price of a book to be Rs.  $x$ . Find the price of a book.

(b) The figure shows two frames in the shape of rectilinear plane figures, which have been made using ekels of equal length. The length of one ekel is  $a$  cm.

(i) Find the perimeter of the first figure in terms of  $a$ .

(ii) Find the perimeter of the second figure in terms of  $a$ .

(iii) If the total length of the ekels used to make these two frames is 42 cm, construct an equation in terms of  $a$ . Solve it and find the value of  $a$ .



(13) The cost of printing the cover of a certain book is Rs.  $y$  while the cost of printing a page of the book is Rs.  $p$ .

- If the book has 45 pages, and it costs Rs.  $c$  to print one copy of it, construct a formula for  $c$  in terms of  $p$  and  $y$ .
- If the cost of printing the book is Rs. 115, and the cost of printing the cover is Rs. 25, find in rupees, the cost  $p$  of printing a page of this book.

(14) Two athletes train on two days of the week. The distances run on the two days are given below.

Day	Shanuka	Kavindu
Monday	2 km 800 m	1 km 200 m
Tuesday	4 km 400 m	3 km 800 m

- Who runs a longer distance during the training period of two days?
- How much further does Shanuka run on Tuesday than on Monday?
- On Tuesday, how much further does Shanuka run than Kavindu?
- What is the total distance run by Shanuka during 4 weeks of such training?