

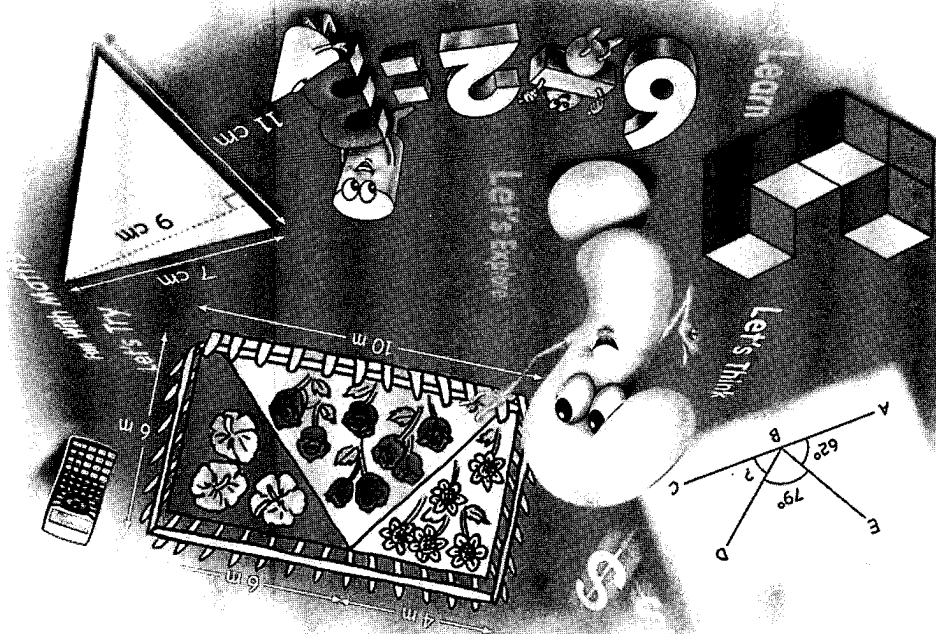
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Consultants:



5B WORKBOOK 2



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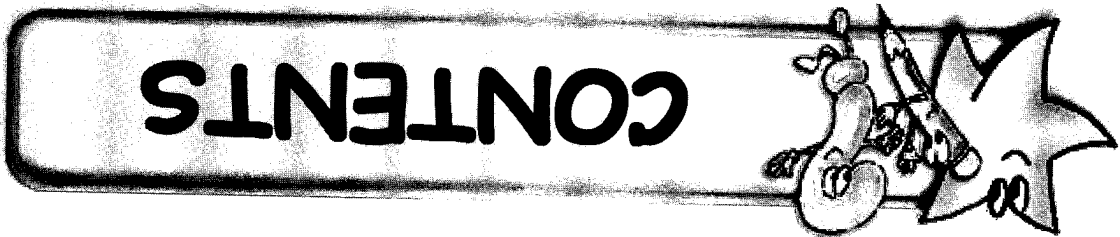
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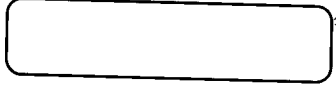
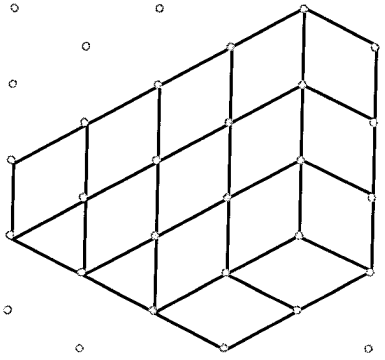
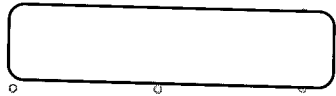
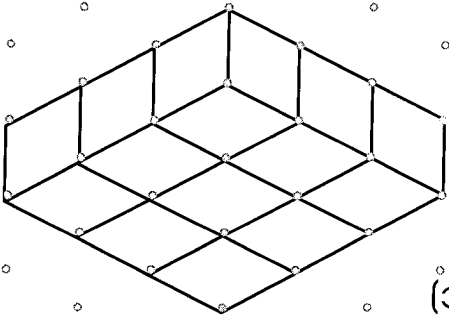

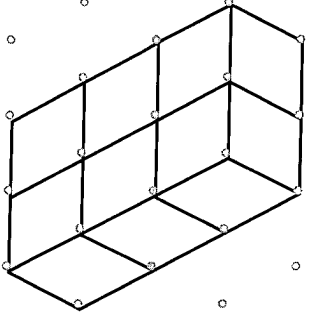
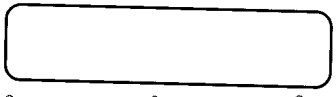
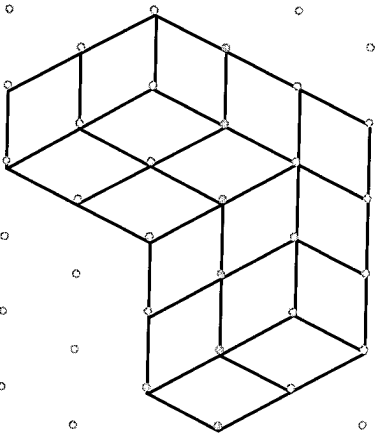
Volume

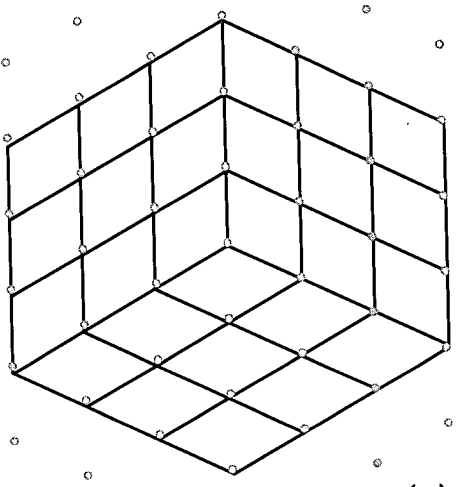
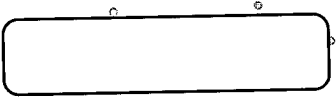
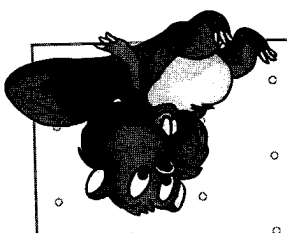
WORKSHEET 36

Cubes and Cuboids

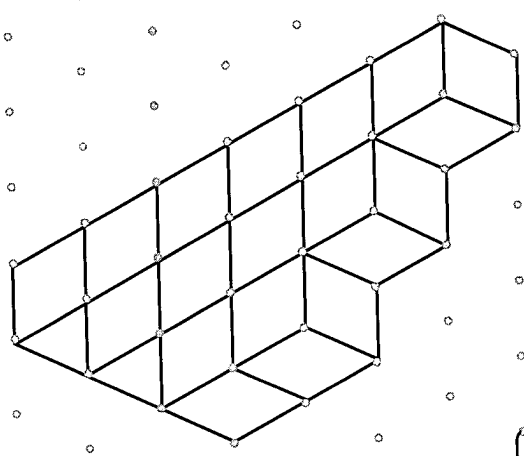
1. Write in the box provided if the figure is a cube or a cuboid. Otherwise, draw a cross in the box.

Date:

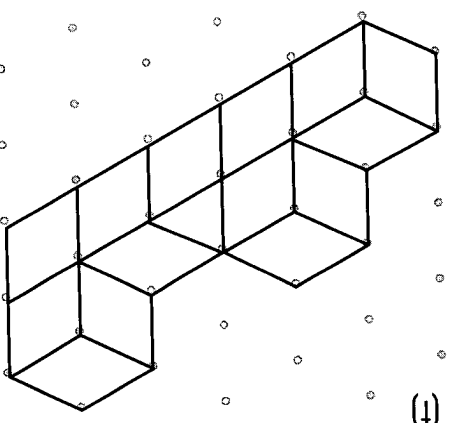
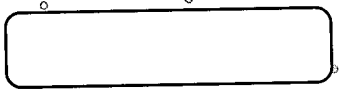
  (d)	  (c)
  (b)	  (a)



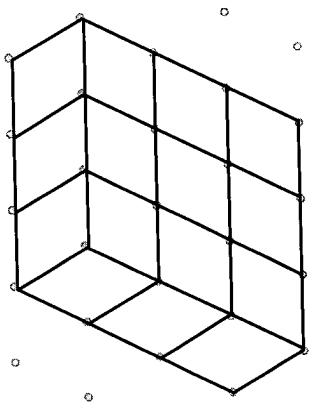
(4)



(6)

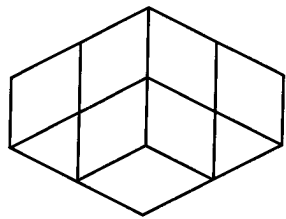


(f)

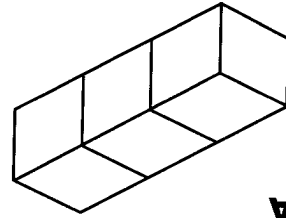
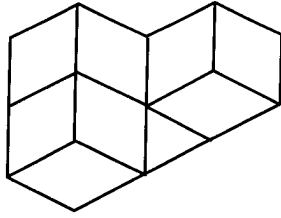
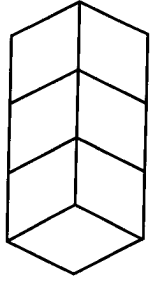
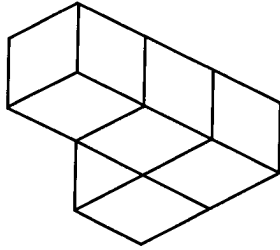
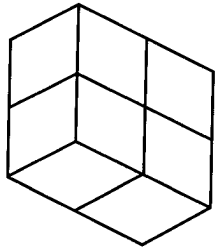


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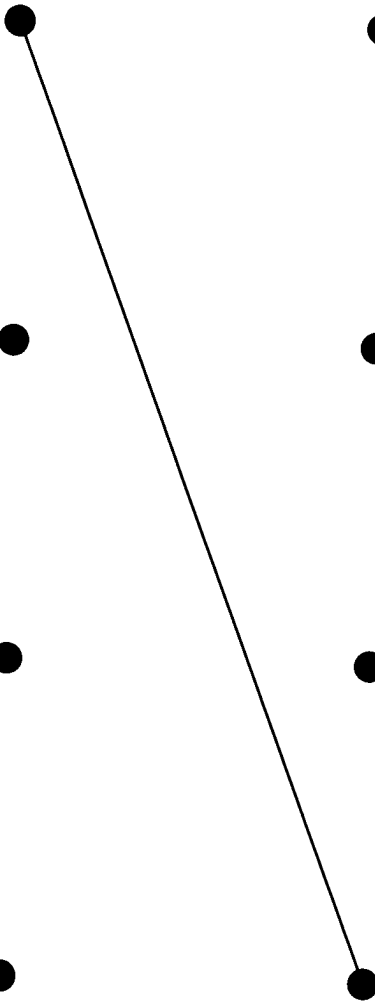
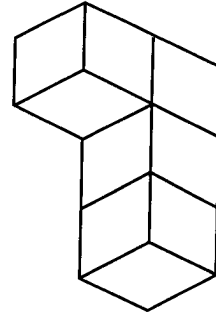
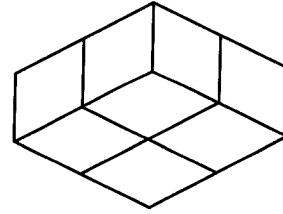
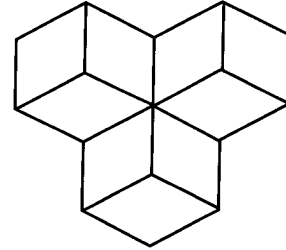
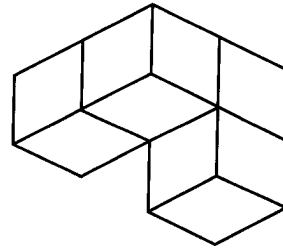
2. Match each solid in column A with the one which has the same shape in column B. The first one has been done for you.

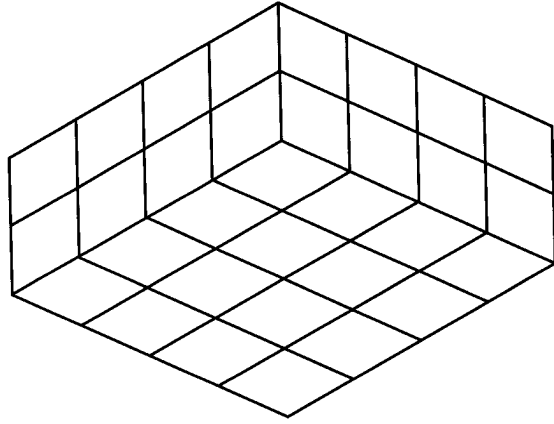
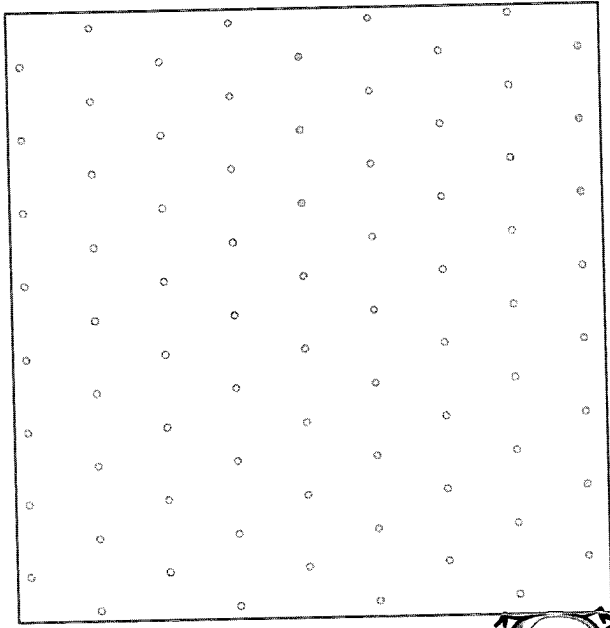


B

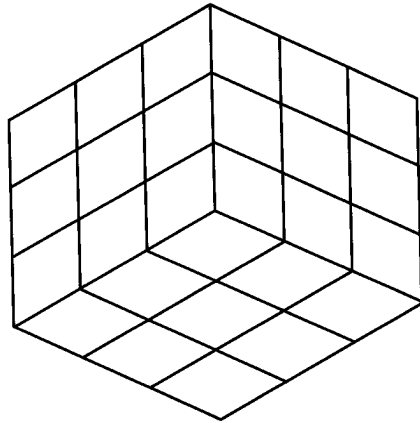
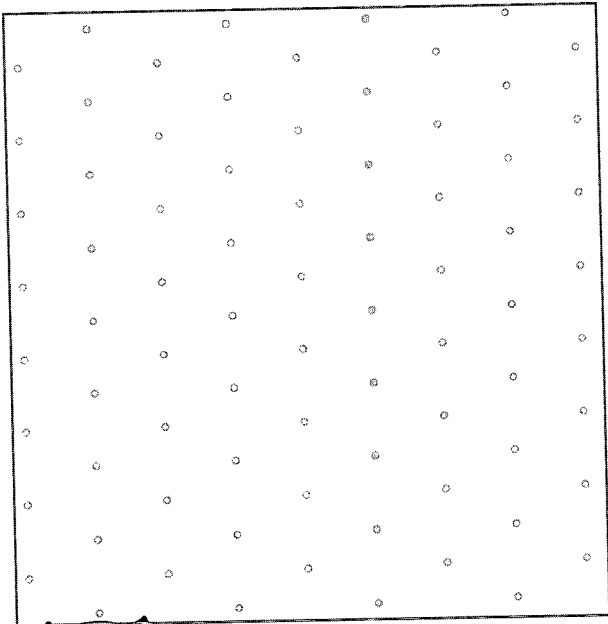


A



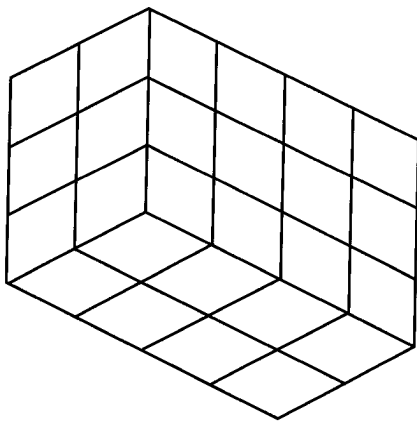
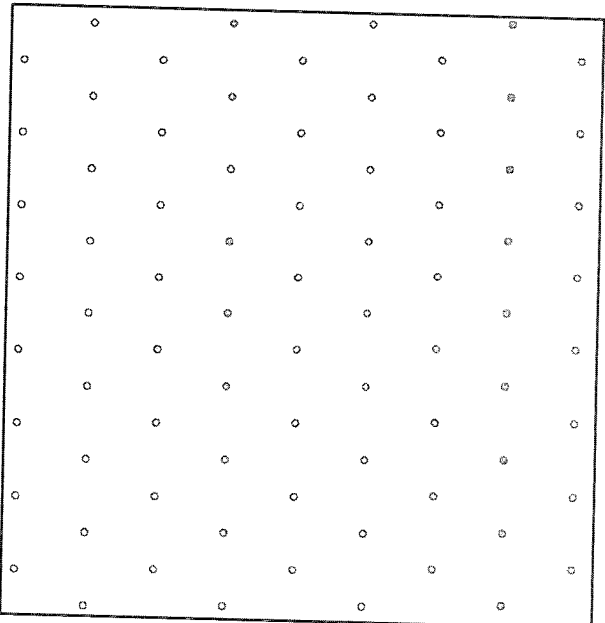


(a)

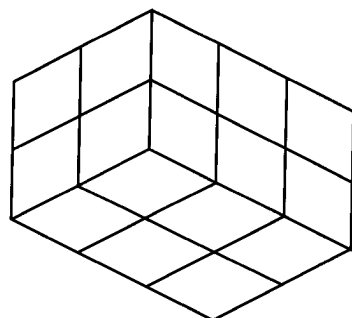
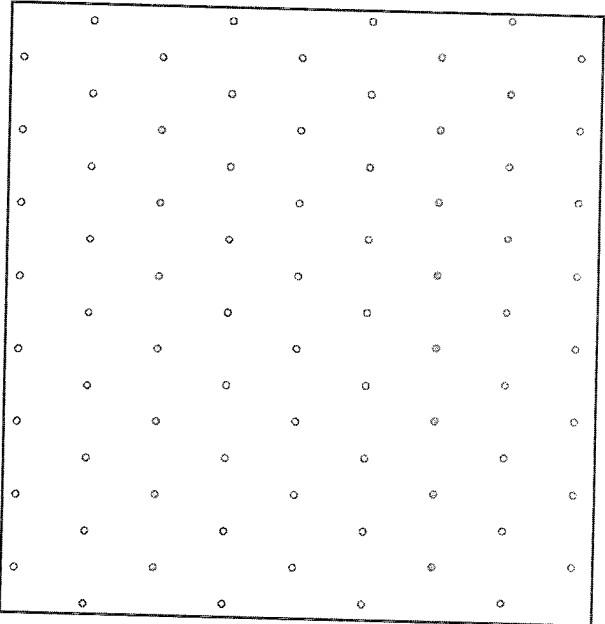


(a)

3. Copy the cube and cuboid onto the given grid.



(p)

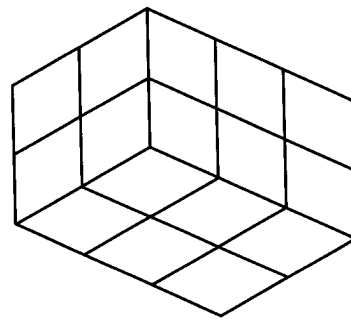


(c)

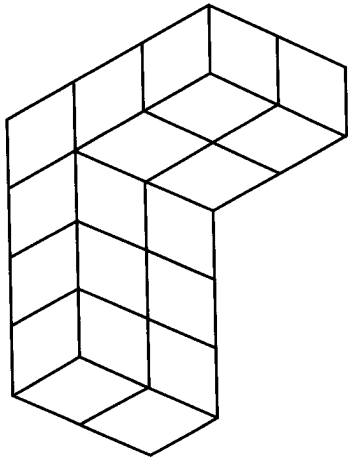
WORKSHEET 37

Volume and Cubic Units

1. The following solids are made up of 1-cm cubes.



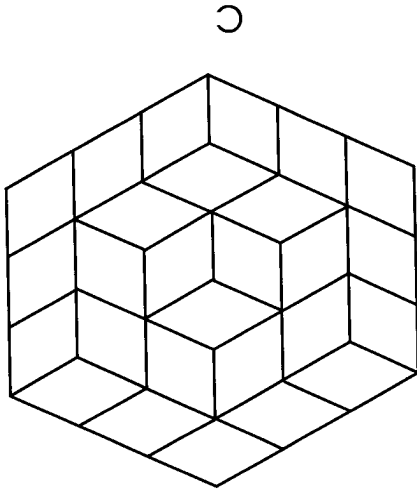
A



B

(a) Complete the table.

	C
	B
	A
Number of 1-cm cubes	

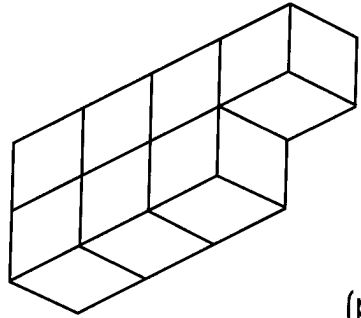


C

(b) Solid _____ and Solid _____ have the same number of 1-cm cubes.
 (c) Solid C has _____ more 1-cm cubes than Solid A.

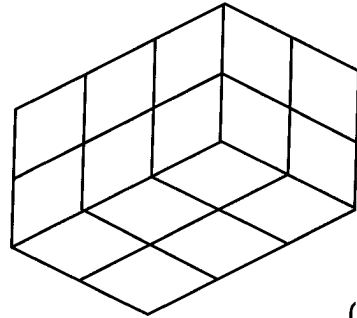
Date:

2. The following solids are made up of 1-cm cubes. Find their volumes.



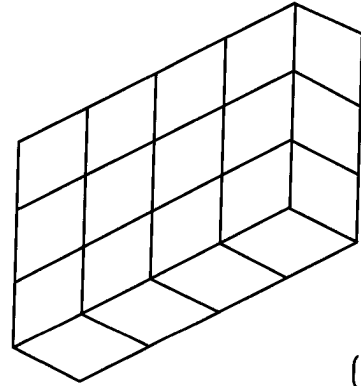
(a)

Total number of cubes = _____
 Volume = _____ × _____ = _____ cm³



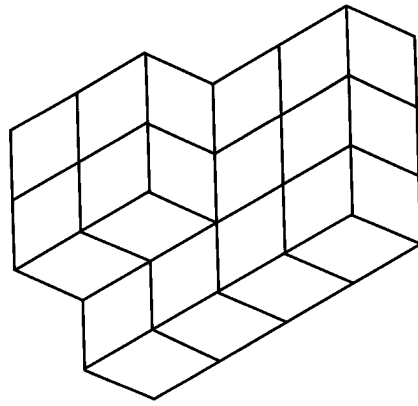
(b)

Total number of cubes = _____
 Volume = _____ × _____ = _____ cm³



(c)

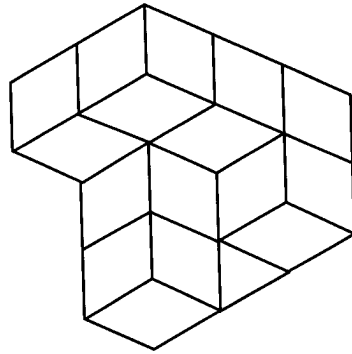
Total number of cubes = _____
 Volume = _____ × _____ = _____ cm³



(f)

Total number of cubes = _____

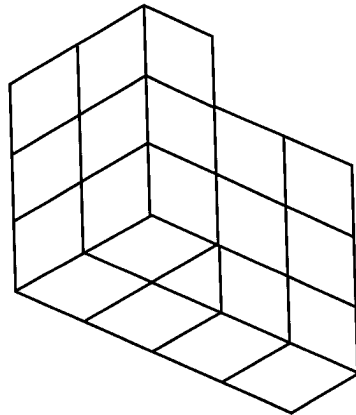
Volume = _____ × _____ = _____ cm^3



(e)

Total number of cubes = _____

Volume = _____ × _____ = _____ cm^3

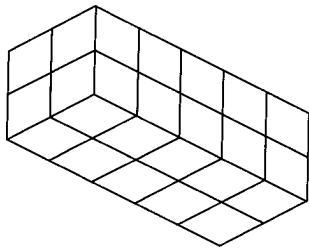


(d)

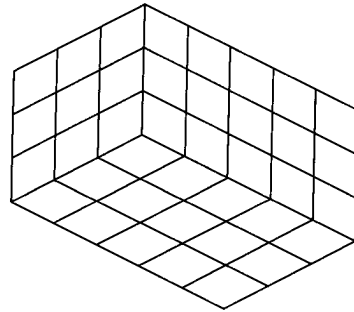
Total number of cubes = _____

Volume = _____ × _____ = _____ cm^3

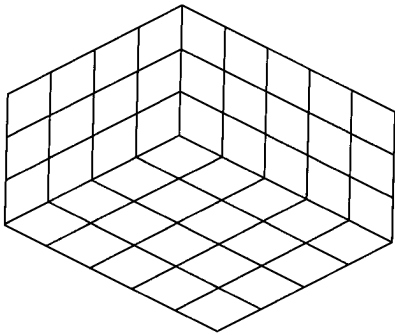
Solids	Length (cm)	Breadth (cm)	Height (cm)	Volume (cm ³)
a	5	1	2	10
b				
c				
d				



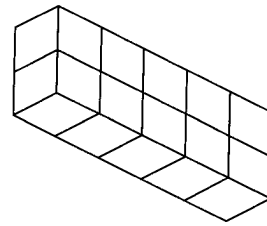
(a)



(c)



(b)



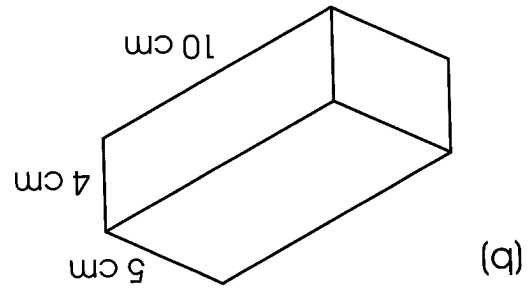
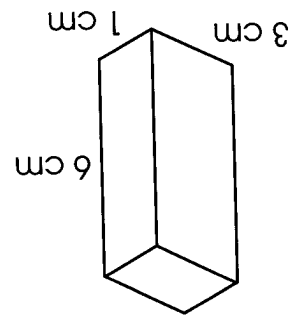
(a)

1. The following cuboids are made up of 1-cm cubes.
- (i) Find the volumes of the following figures.
 - (ii) Complete the table.

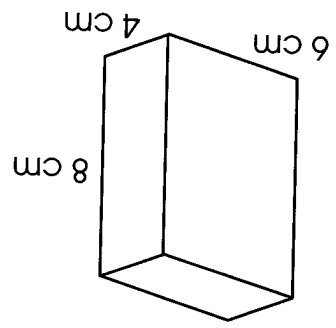
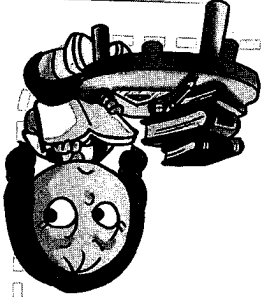
Volume of Cuboids and Cubes

WORKSHEET 38

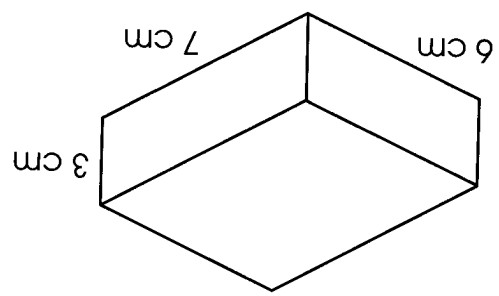
Date:



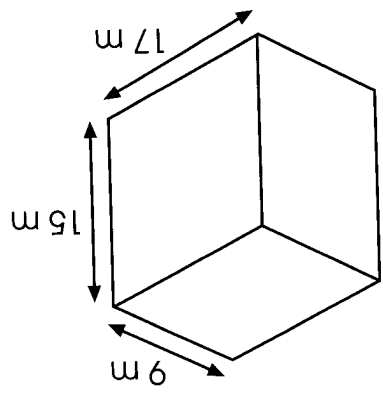
2. Find the volume of each cuboid. Show your working clearly.



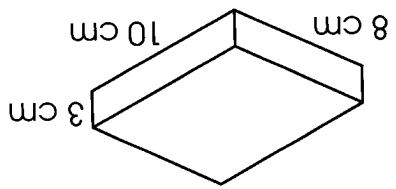
(a)



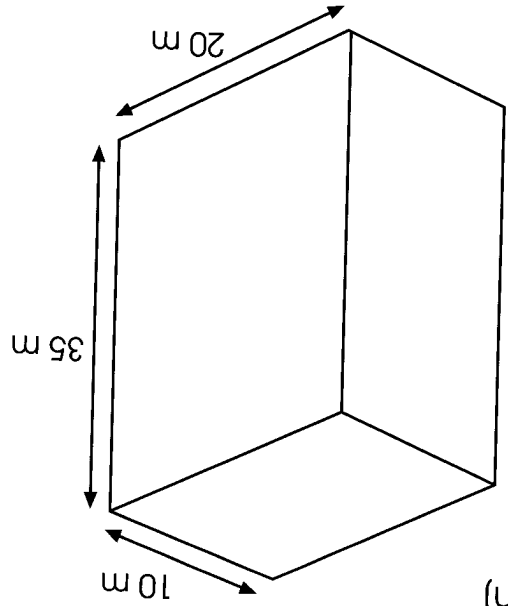
(c)



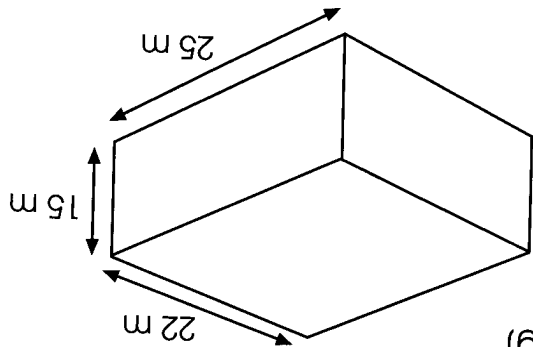
(f)



(e)



(h)



(g)



(h) $320 \text{ cm}^3 =$ ml

(g) $7235 \text{ cm}^3 =$ ℓ

(f) $0.35 \ell =$ cm^3

(e) $8500 \text{ ml} =$ cm^3

(d) $3750 \text{ cm}^3 =$ ℓ

(c) $1400 \text{ cm}^3 =$ ml

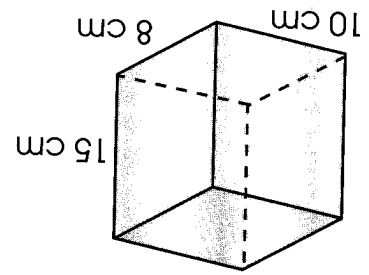
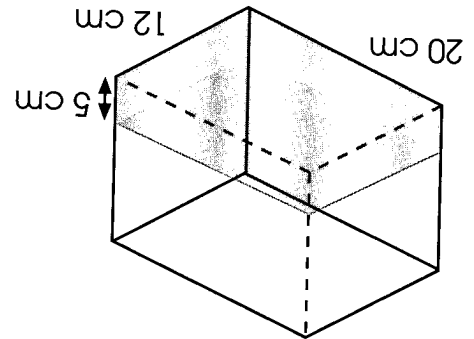
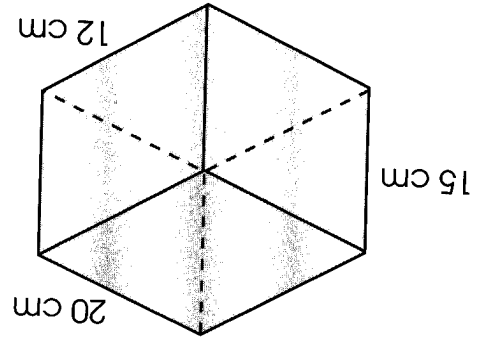
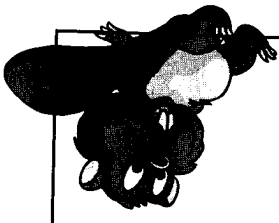
(b) $2.5 \ell =$ cm^3

(a) $650 \text{ ml} =$ cm^3

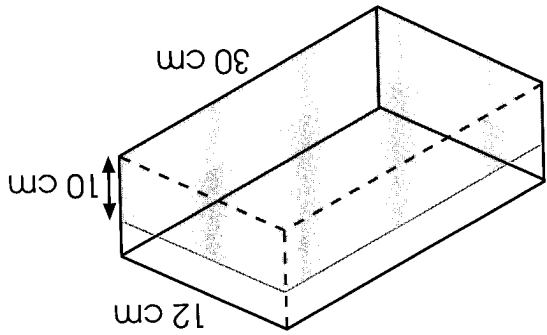
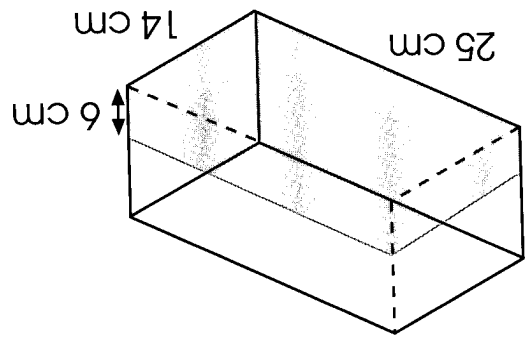
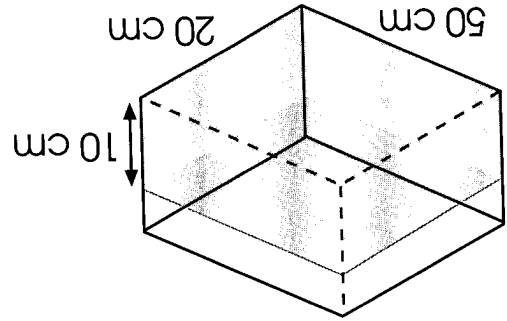
1. Fill in the blanks.

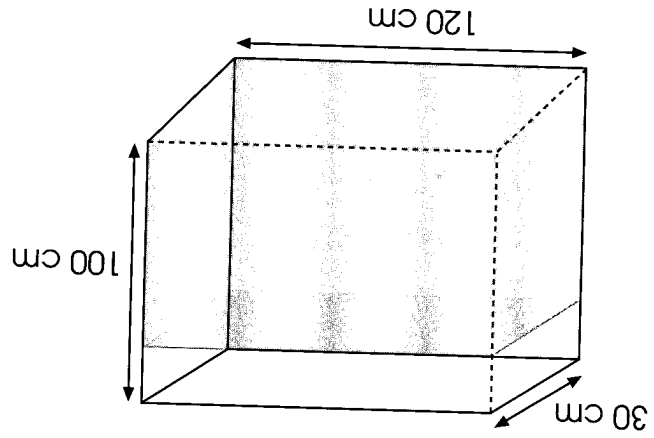
WORKSHEET 39 Volume of Liquid

Date:

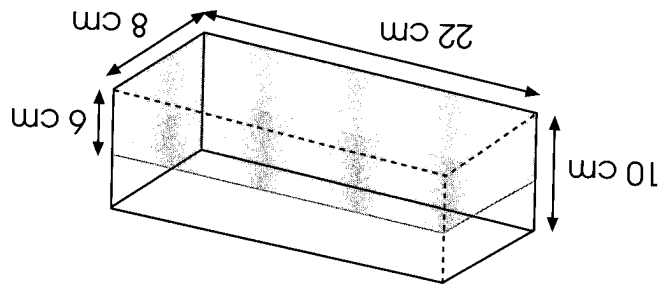


2. Find the volume of water in each of the containers in litres. Show your working clearly.

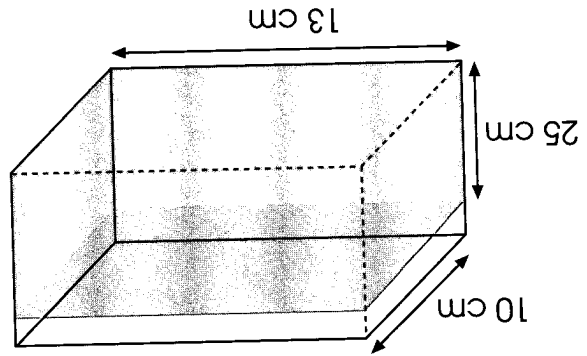
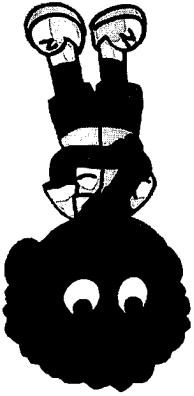




4. The rectangular container shown is filled to $\frac{4}{5}$ of its capacity. What is the volume of water in the container? Express your answer in litres.



3. A rectangular tank measures 22 cm by 8 cm by 10 cm. Now the water level in the tank is 6 cm. What is the amount of water needed to completely fill the tank? Express your answer in millilitres.



2. $\frac{5}{6}$ of the rectangular container has been filled with water. What is the capacity of the tank? Express your answer in litres.

1. A water storage tank is 3 m long, 2 m wide and 1 m deep. What is the capacity of the tank?

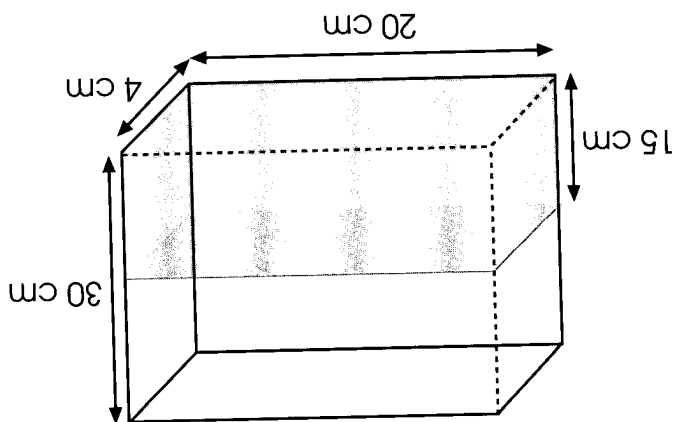
WORKSHEET 40

Word Problems

Date:

- 3.** A rectangular swimming pool measures 30 m by 10 m by 2 m. How many cubic metres of water will be required to fill the pool completely?
- 4.** The length of an atlas is 28 cm, its breadth is 5 cm shorter than its length. The thickness of the atlas is 3 cm. Find the volume of the atlas.

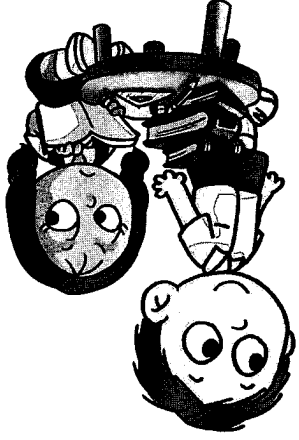
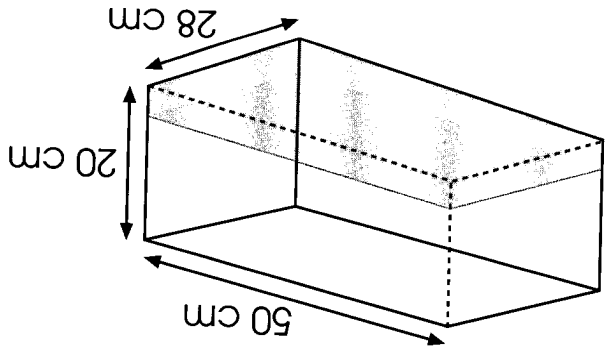
6. The height of a cuboid is 10 cm. Its length is 3 times its height and 5 times its breadth. Find the volume of the cuboid.

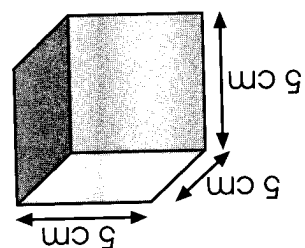


5. Water is poured into the container as shown below. How much more water is needed to fill it up completely?

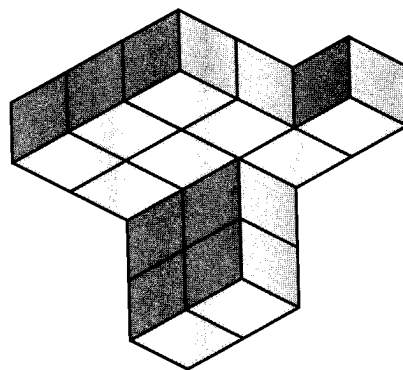
7. The length of a fish tank is 250 cm. Its breadth is 50 cm and its height is $\frac{5}{2}$ its length. Find the capacity of the fish tank.

8. A rectangular tank measuring 50 cm by 28 cm by 20 cm contained some water. When 10 litres of water was added, the tank was filled to the brim. How many litres of water were there in the tank at first?



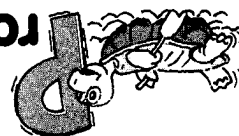


2. Find the volume of the cube as shown.



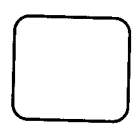
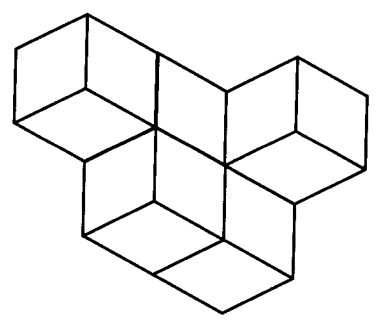
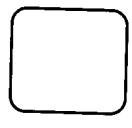
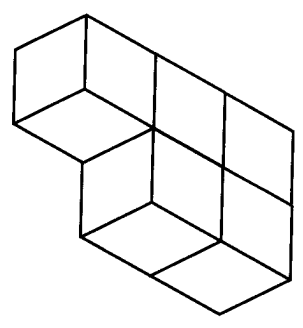
1. 1-cm cubes are stacked to make a solid as shown. How many 1-cm cubes are there? What is the volume of the solid?

Practice 11

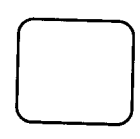
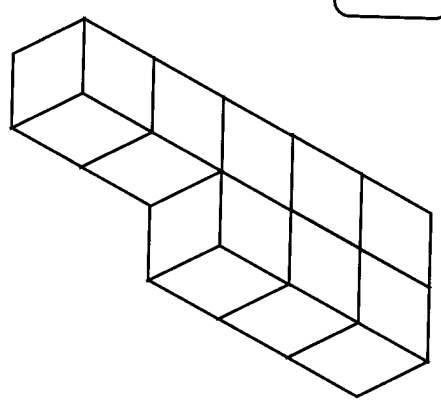
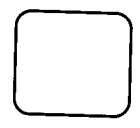
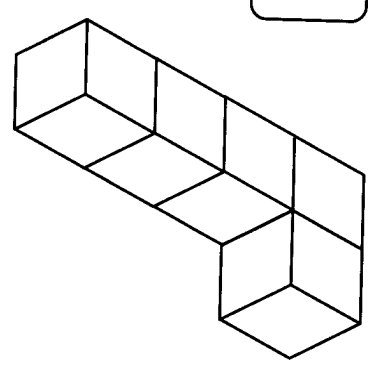


Date:

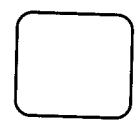
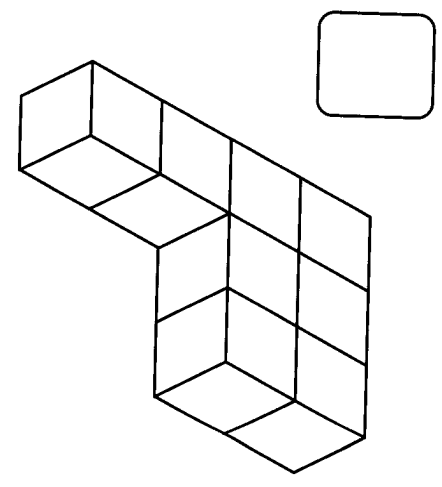
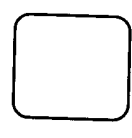
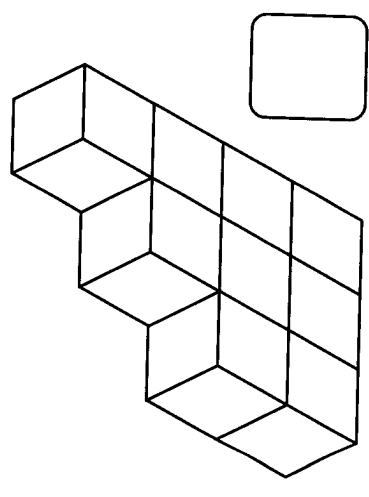
3. Tick (✓) the solid with the greater volume in each pair.



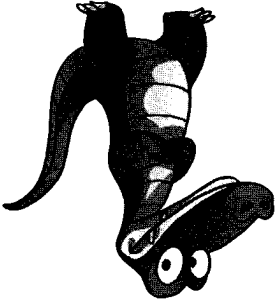
(a)



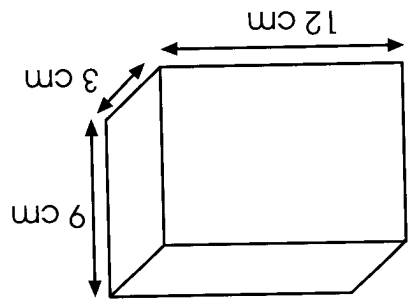
(b)



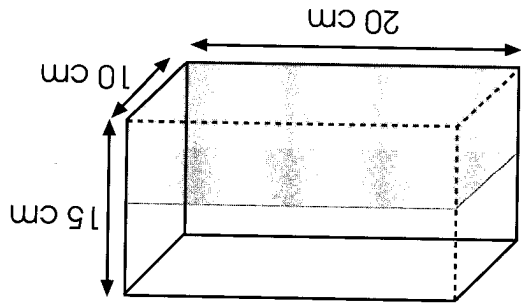
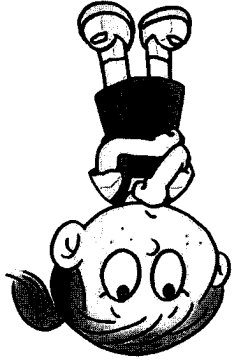
(c)



5. A rectangular tank measures 120 cm by 20 cm by 50 cm. Find the capacity of the tank in litres.

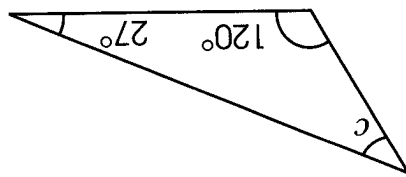


4. Find the volume of the cuboid shown.

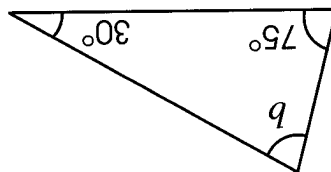


7. The rectangular tank shown below measures 20 cm by 10 cm by 15 cm. It is filled with water to half its height. What is the volume of water in the tank?

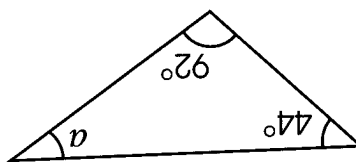
6. The length of a fish tank is 100 cm, its breadth is $\frac{4}{3}$ of its length and its height is 20 cm. Find the capacity of the fish tank in litres.



(c)



(b)



(a)

$$\boxed{} - \boxed{} - \boxed{} = 180^\circ$$

$$\angle a = 180^\circ - \boxed{} - \boxed{} = \boxed{}$$

1. The following figures are **not** drawn to scale. Find the marked unknown angles.

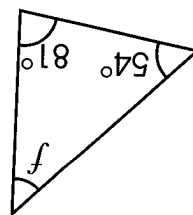
Sum of Angles of a Triangle

WORKSHEET 41

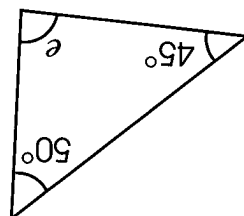
12 Triangles



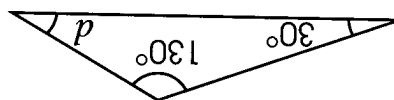
Date:



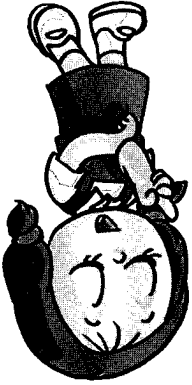
(f)



(e)

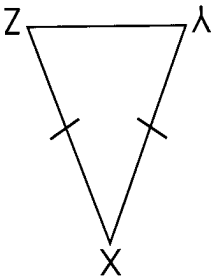
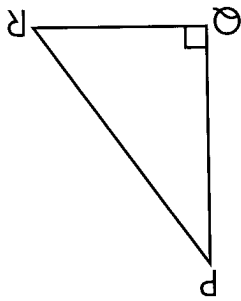
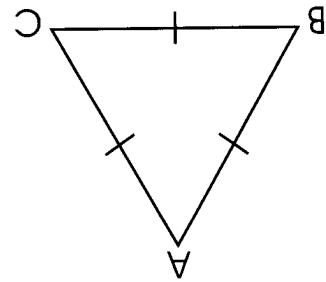


(d)



WORKSHEET 42
Special Triangles

1. Fill in the blanks.



Triangle ABC is a/an triangle.

All sides of triangle ABC are .

Triangle PQR is a/an triangle.

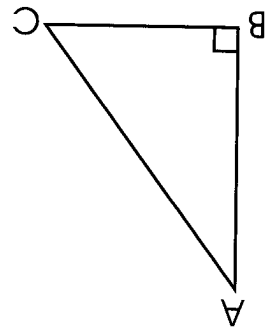
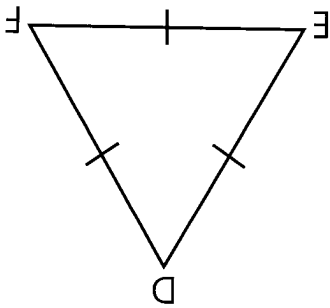
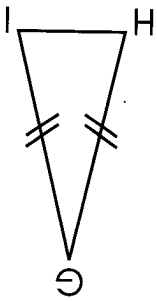
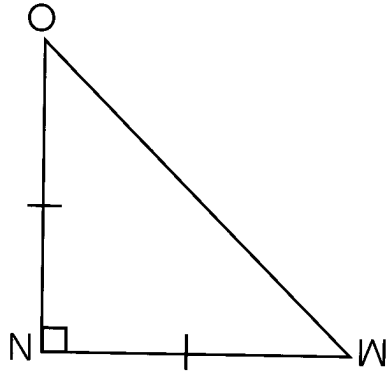
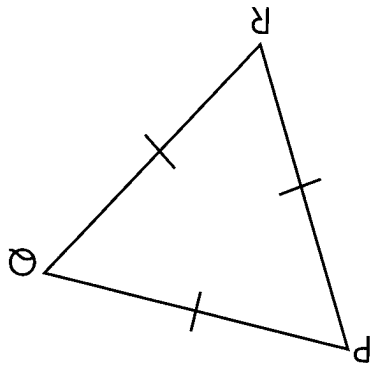
One of the angles of triangle PQR is .

Triangle XYZ is a/an triangle.

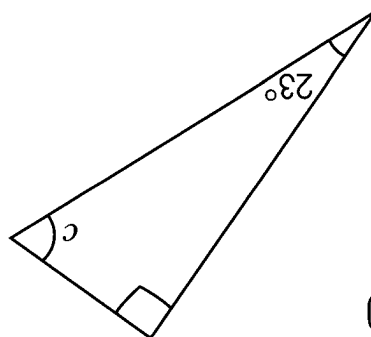
Two sides of triangle XYZ are .

Date:

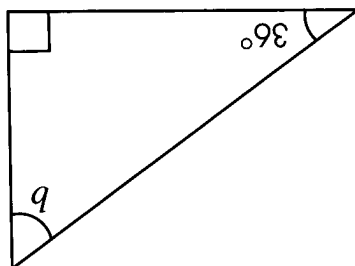
Name of Triangles	Type of Triangles
	Equilateral triangles
	Right-angled triangles
	Isosceles triangles



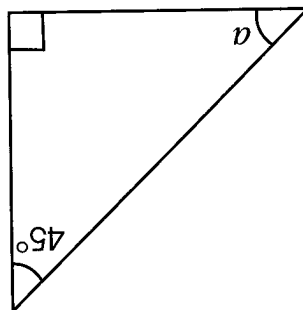
2. Study the triangles below and complete the table.



(c)

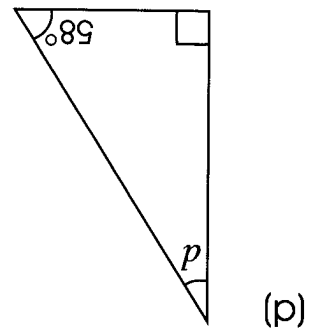
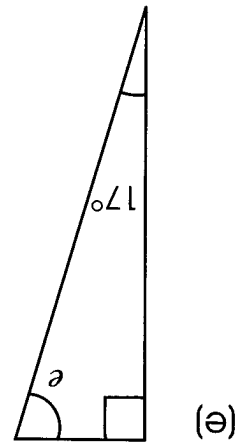
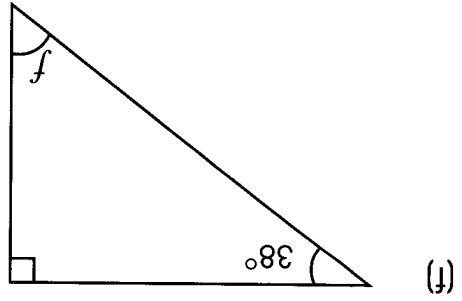
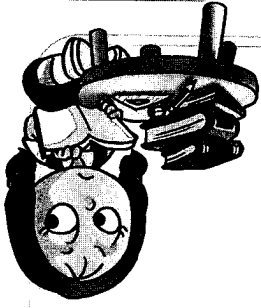


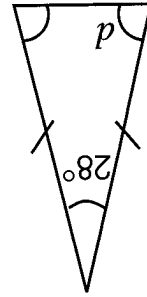
(b)



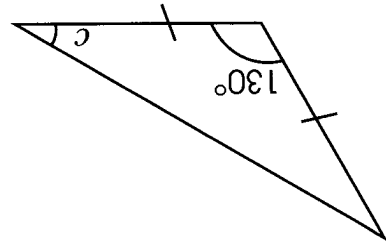
(a)

3. The following figures are **not** drawn to scale. Find the unknown angles.

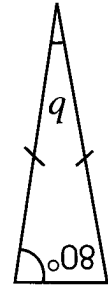




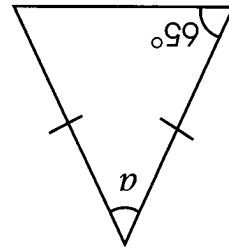
(d)



(c)

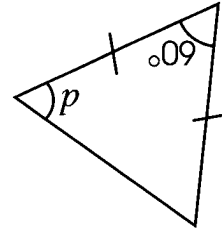


(b)

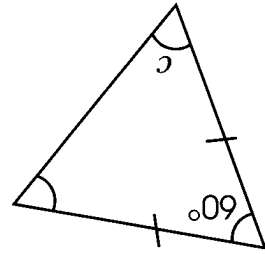


(a)

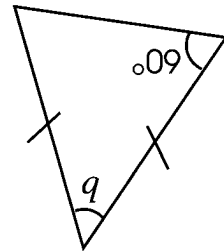
4. The following figures are **not** drawn to scale. Find the unknown angles.



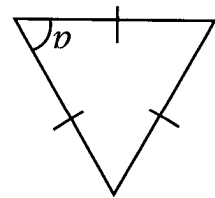
(d)



(c)



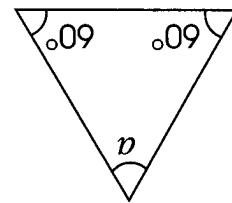
(b)



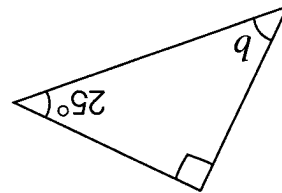
(a)

5. The following figures are **not** drawn to scale. Find the unknown angles.

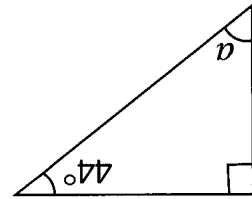
6. The following figures are **not** drawn to scale. Find the unknown angles.



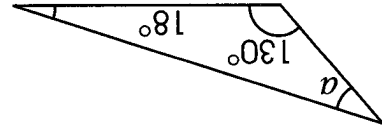
(a)



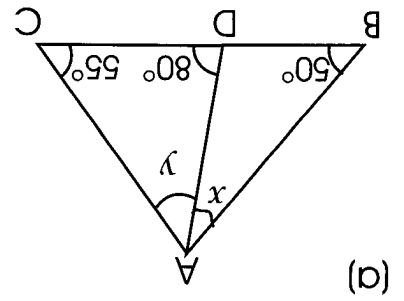
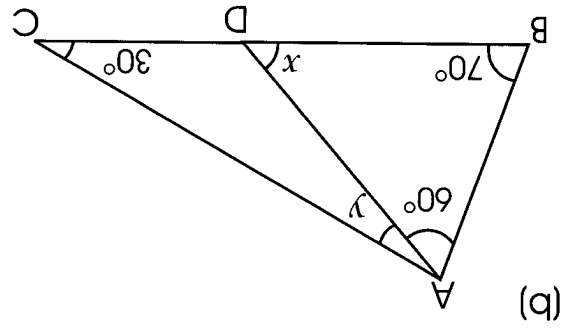
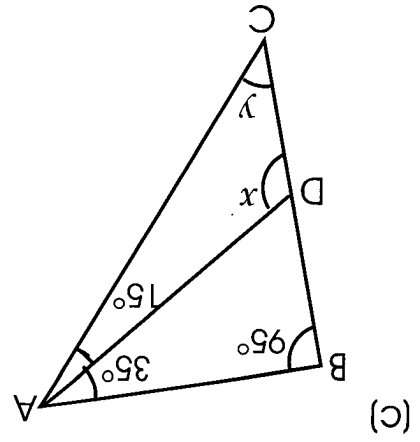
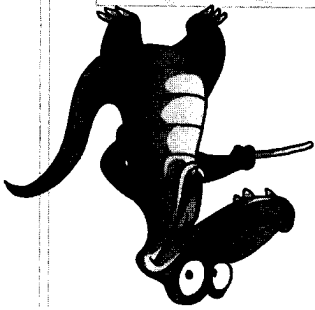
(b)



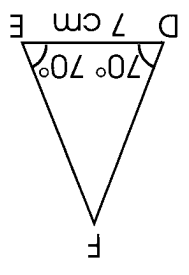
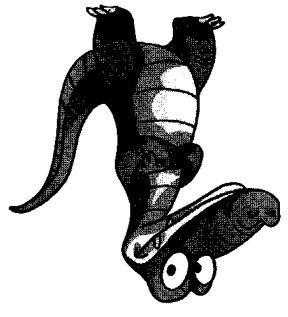
(c)



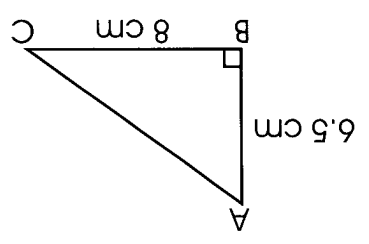
(d)



7. The following figures are **not** drawn to scale. ABC is a triangle. Find the unknown angles.



2. Draw a triangle DEF in which $DE = 7\text{ cm}$ and $\angle DEF$ and $\angle EDF$ are each 70° .

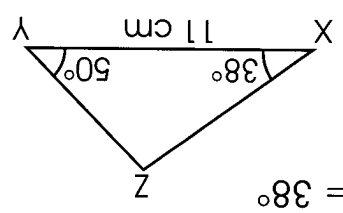


1. Draw a triangle ABC in which $AB = 6.5\text{ cm}$, $BC = 8\text{ cm}$ and $\angle ABC = 90^\circ$.

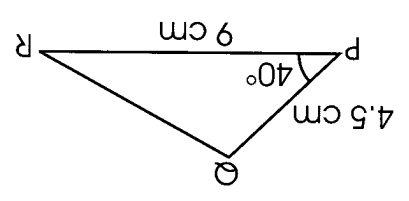
Constructing Triangles

WORKSHEET 43

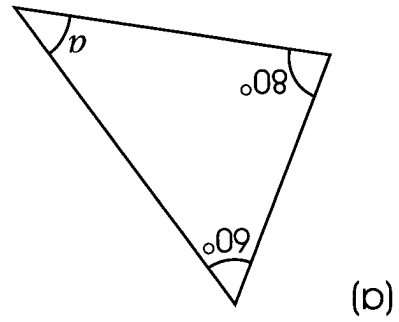
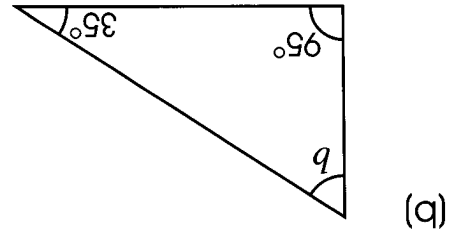
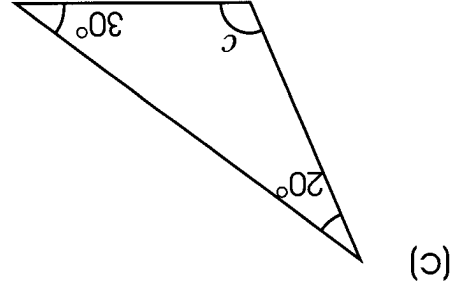
Date:



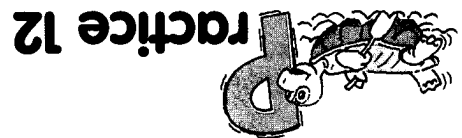
4. Draw a triangle XYZ in which $XY = 11\text{ cm}$, $\angle ZXY = 38^\circ$ and $\angle ZYX = 50^\circ$.



3. Draw a triangle PQR in which $PQ = 4.5\text{ cm}$, $PR = 9\text{ cm}$ and $\angle RPQ = 40^\circ$.

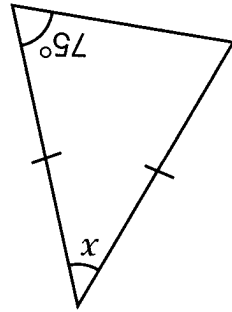


1. The following figures are **not** drawn to scale. Find the unknown angles.

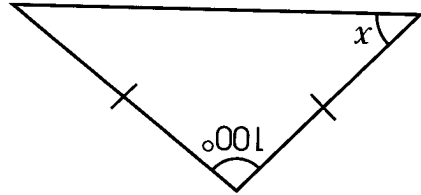


Date:

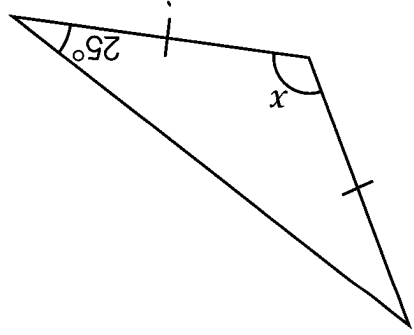
2. The following figures are **not** drawn to scale. Find the unknown angles.



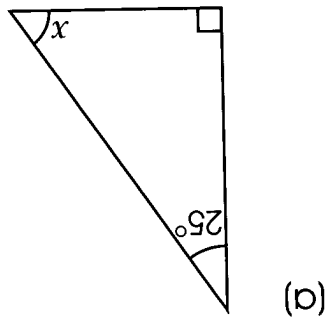
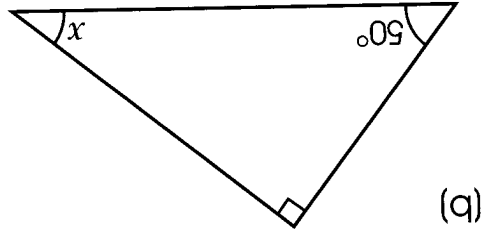
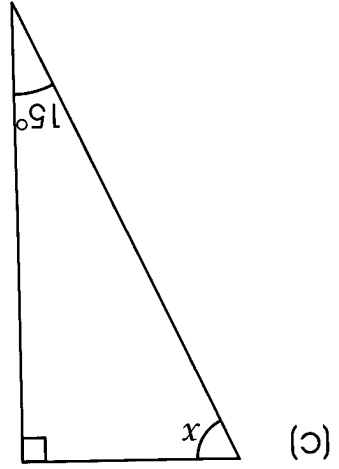
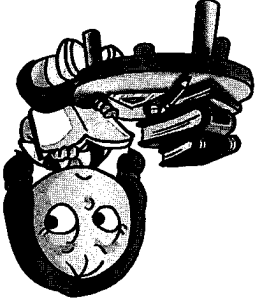
(a)



(b)

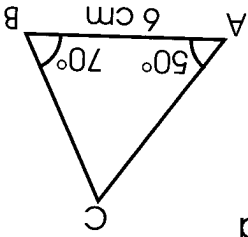


(c)

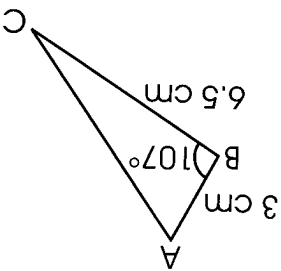


3. The following figures are **not** drawn to scale. Find the unknown angle in each right-angled triangle.

5. Draw a triangle in which $AB = 6$ cm, $\angle ABC = 70^\circ$ and $\angle BAC = 50^\circ$.

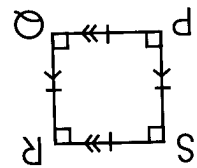


4. Draw a triangle in which $AB = 3$ cm, $\angle ABC = 107^\circ$ and $BC = 6.5$ cm.

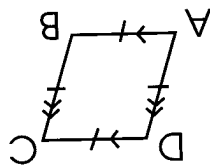


Names of figures	Properties
	4 right angles
	only 1 pair of parallel lines
	2 pairs of parallel lines
	no perpendicular lines
	all sides are equal

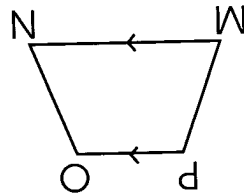
(a)



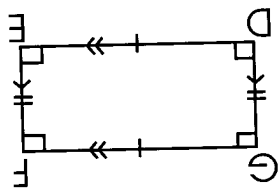
(b)



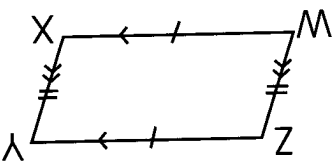
(d)



(e)



(c)



1. Study the figures below and complete the table.

Identifying 4-Sided Figures

WORKSHEET 44

13 4-Sided Figures



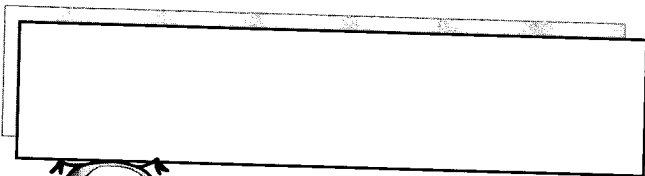
Date:

2. Solve the following riddles and write the names of the 4-sided figures in the boxes.

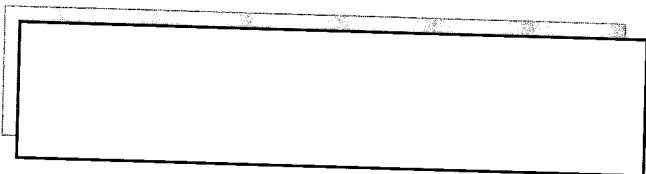
(a) All my sides are equal but I do not have any right angle.
What am I?



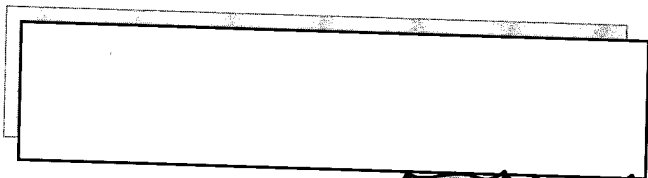
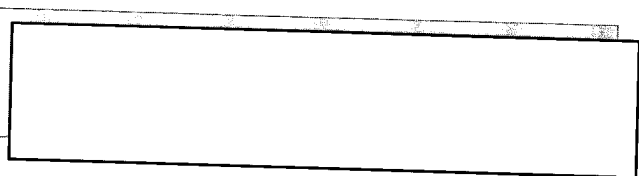
(b) All my sides are equal and I have 4 right angles.
What am I?

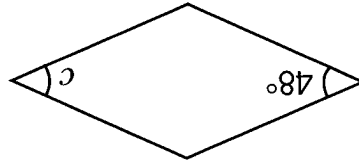
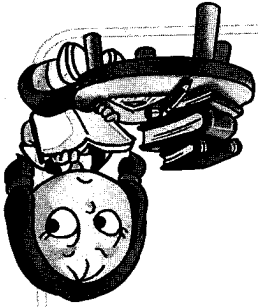


(c) I have 2 pairs of parallel lines but I have no perpendicular lines. I do not have 4 equal sides. What am I?

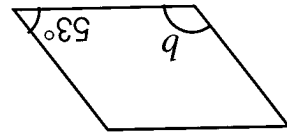


(d) I have 4 sides and 2 of my sides form a pair of parallel lines.
What am I?

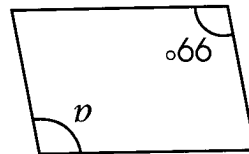




(c)



(b)



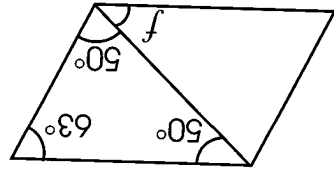
(a)

1. The following parallelograms are **not** drawn to scale. Find the unknown angles.

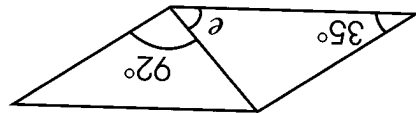
Properties of 4-sided Figures

WORKSHEET 45

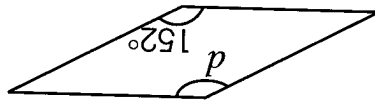
Date:



(f)

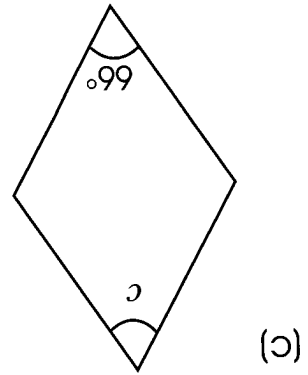
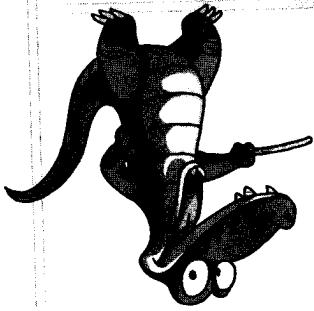
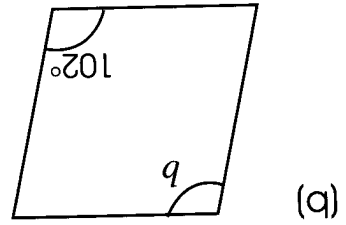
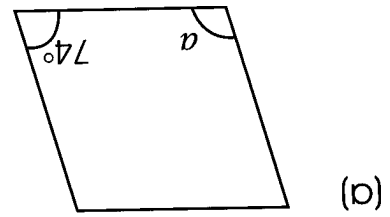


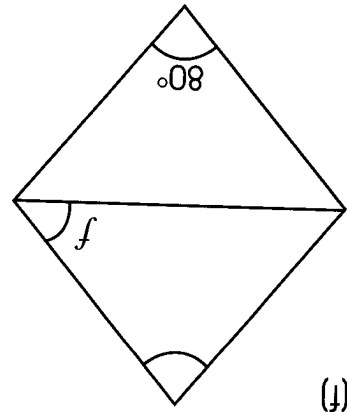
(e)



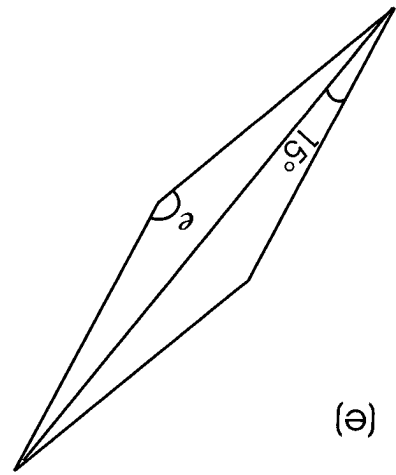
(d)

2. The following rhombuses are **not** drawn to scale. Find the unknown angles.

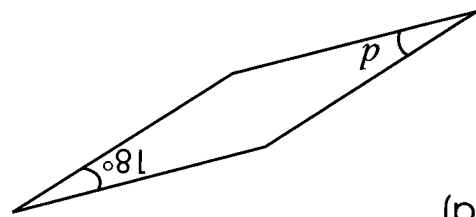




(f)

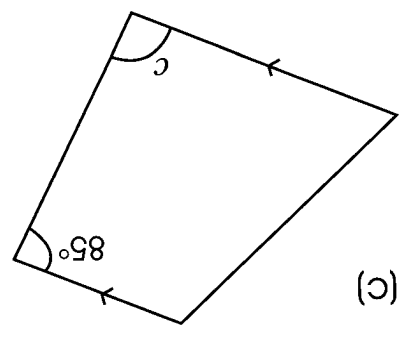
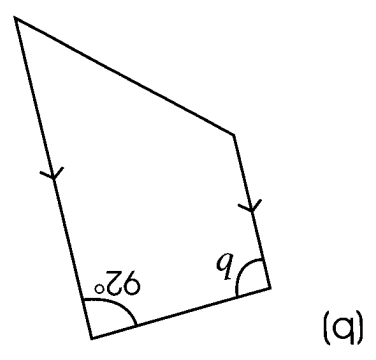
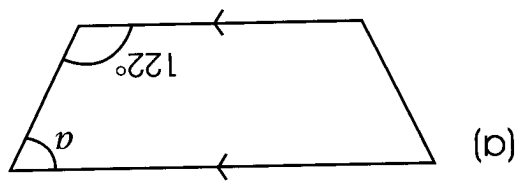


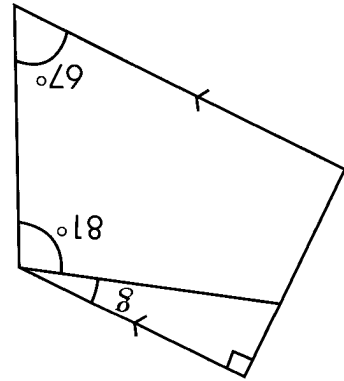
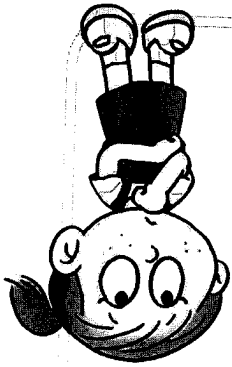
(e)



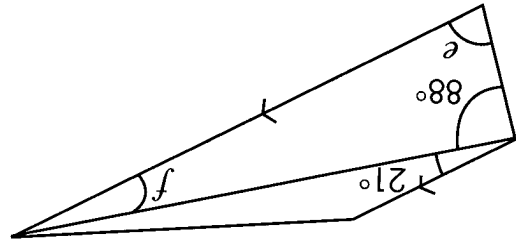
(d)

3. The following trapeziums are **not** drawn to scale. Find the unknown angles.

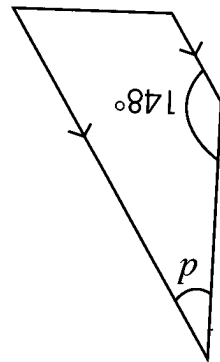




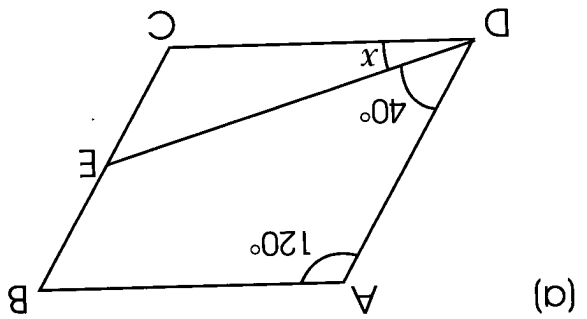
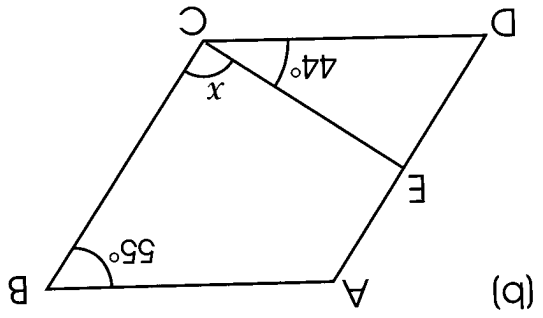
(f)



(e)

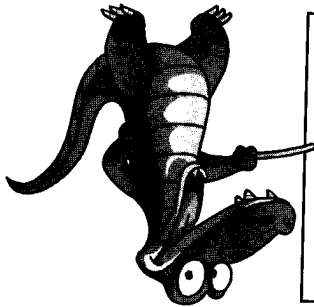


(d)



4. The following parallelograms are **not** drawn to scale. Find $\angle x$.

Shape(s)	Description
	A four-sided figure whose opposite sides are parallel.
	A four-sided figure whose opposite sides are equal and each angle in the figure is 90° .
	A four-sided figure where only one pair of opposite sides are parallel.
	A four-sided figure whose opposite sides are parallel and all the sides are equal in length.
	A four-sided figure whose sides are equal and each angle is 90° .

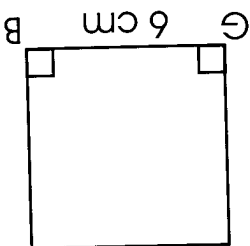


Rhombus	Square
Trapezium	Rectangle
Triangle	Parallelogram

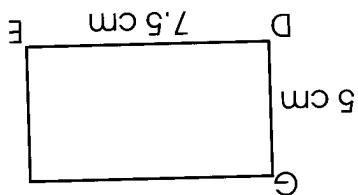
5. Fill in the name of the shape that fits the description best. Each shape can be used more than once.

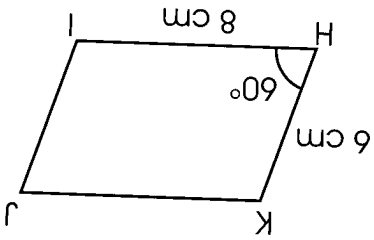
WORKSHEET 46**Construction of 4-sided Figures**

1. Draw a square ABCD in which $AB = 6$ cm.

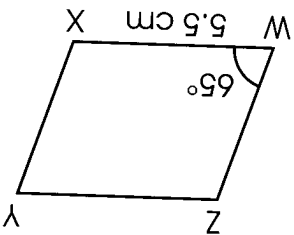


2. Draw a rectangle DEFG in which $DE = 7.5$ cm and $DG = 5$ cm.

Date:

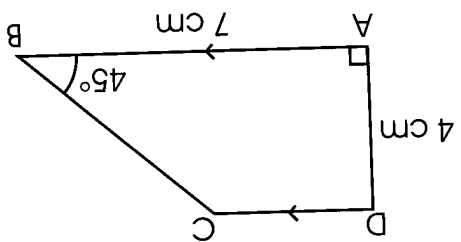


4. Draw a parallelogram HIJK in which $HI = 8$ cm, $HK = 6$ cm and $\angle KHI = 60^\circ$.

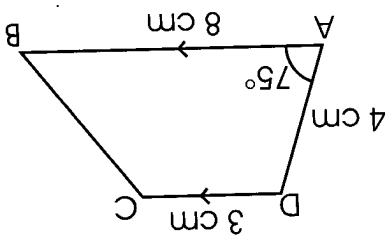


3. Draw a rhombus WXYZ in which $WX = 5.5$ cm and $\angle ZWX = 65^\circ$.

6. Draw a trapezium ABCD in which $DC \parallel AB$,
 $AD = 4$ cm and $\angle ABC = 45^\circ$,
 $AB = 7$ cm, $\angle BAD = 90^\circ$.



5. Draw a trapezium ABCD in which $DC \parallel AB$,
 $AB = 8$ cm, $\angle BAD = 75^\circ$, $AD = 4$ cm
and $DC = 3$ cm.







LMRS



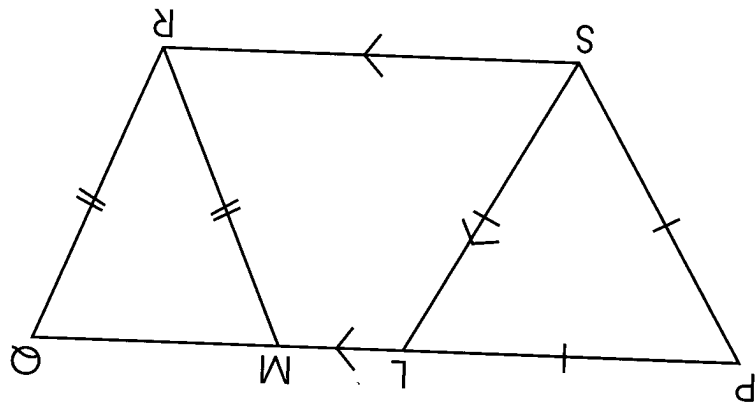
QMR



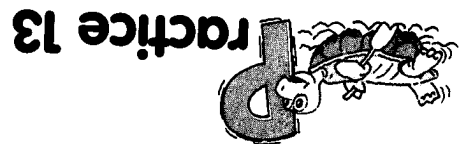
PSL



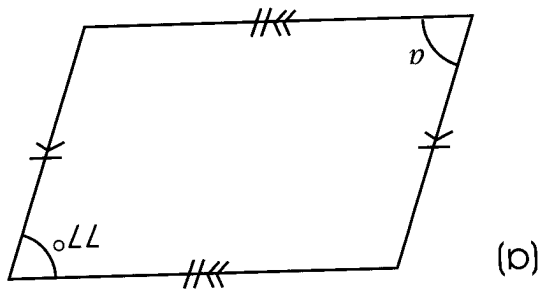
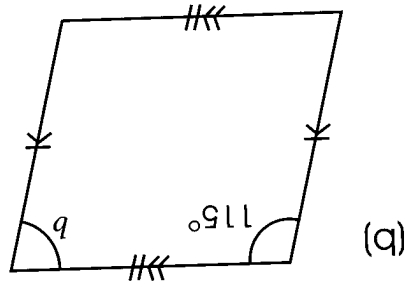
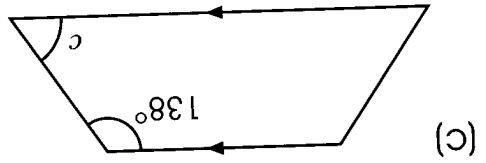
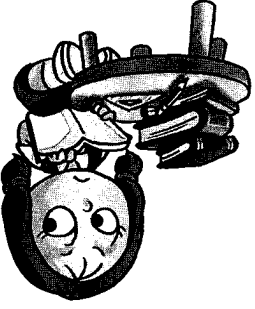
PQRS



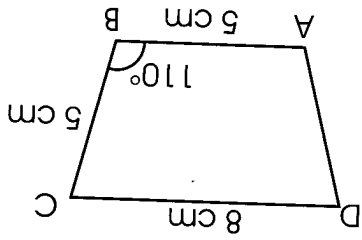
1. Identify the type of figures:



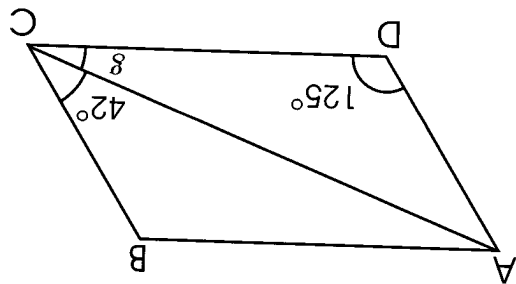
Date:



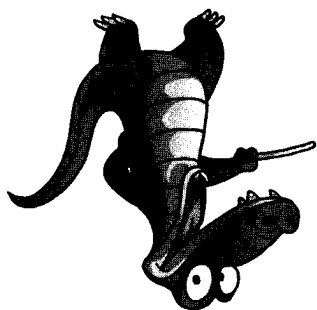
2. The following figures are **not** drawn to scale. Find the unknown angles.



4. Draw a trapezium ABCD with $AB \parallel CD$, $AB = 5$ cm, $\angle ABC = 110^\circ$, $BC = 5$ cm and $DC = 8$ cm.



3. ABCD is a parallelogram. Find $\angle g$ in the parallelogram below.

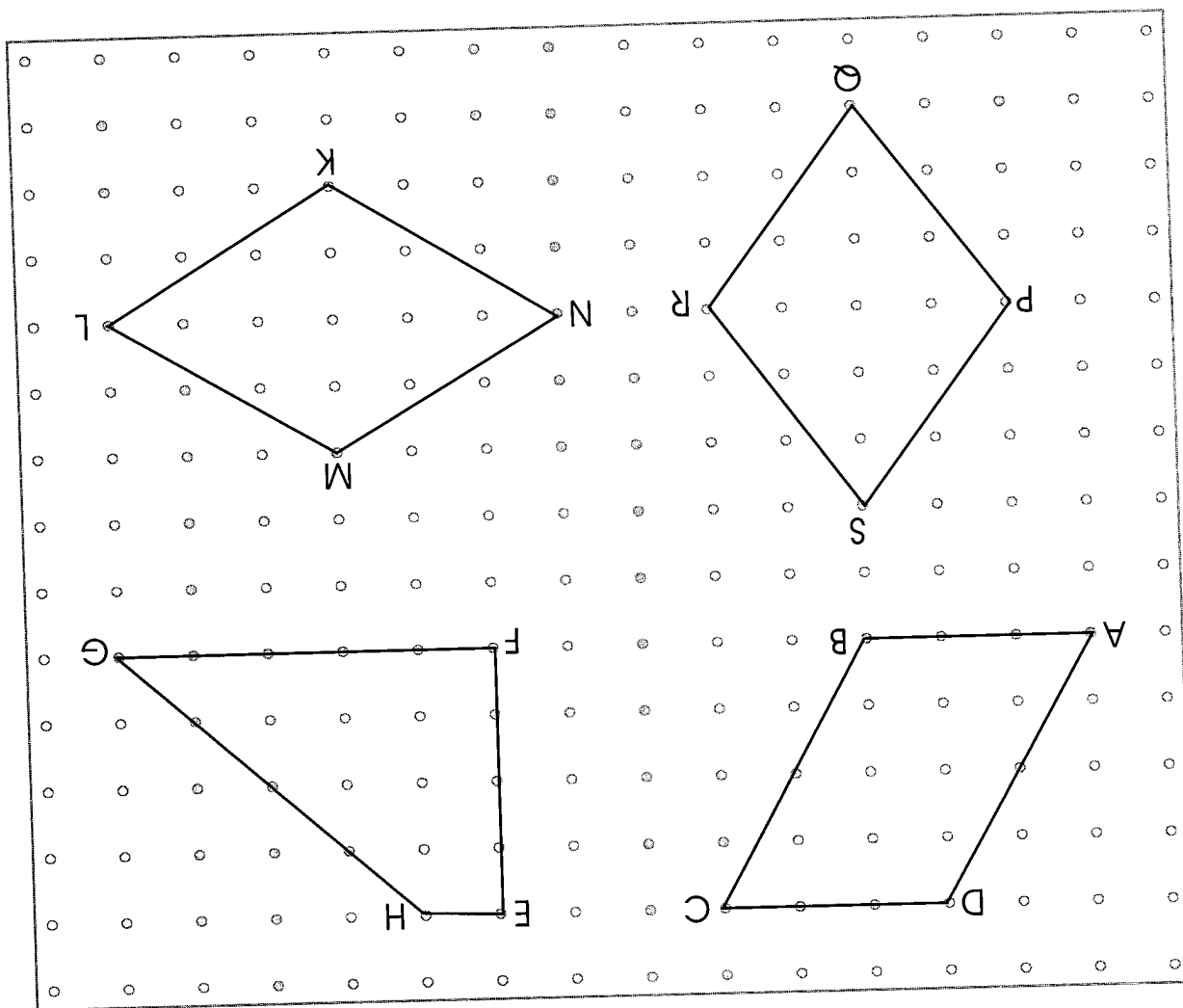


_____ KLMN is a

_____ PQRS is a

_____ EFGH is a

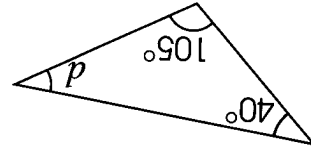
_____ ABCD is a



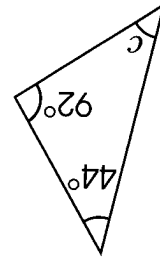
1. Name each figure shown on the grid accurately.

Date:

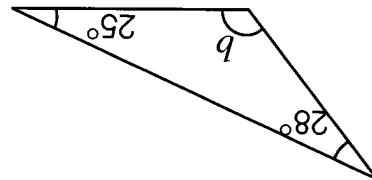




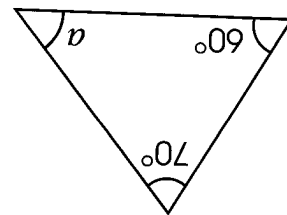
(d)



(c)

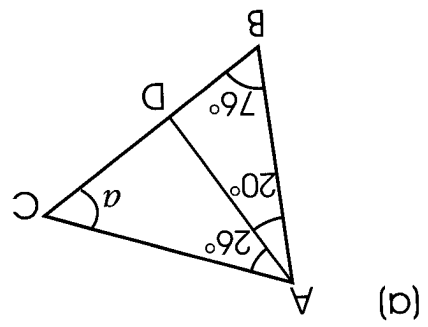
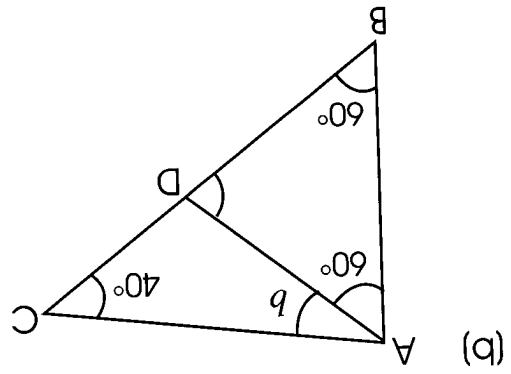


(b)

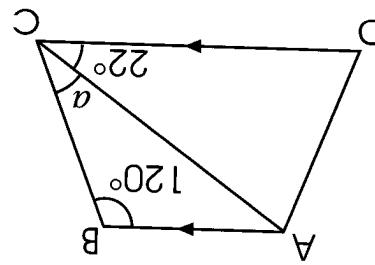
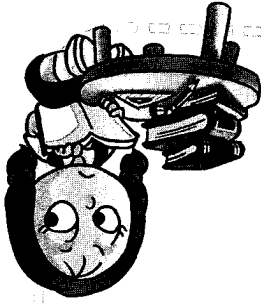


(a)

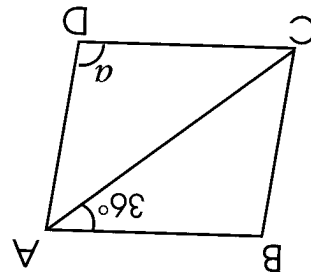
2. The following figures are **not** drawn to scale. Find the unknown angles.



3. The following figures are **not** drawn to scale. Find the unknown angles.

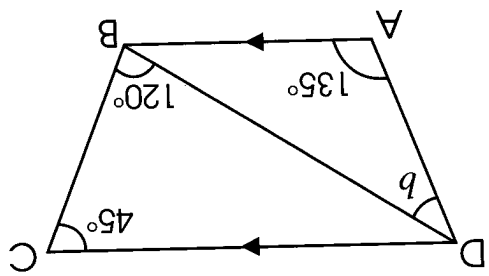


(b) ABCD is a trapezium.

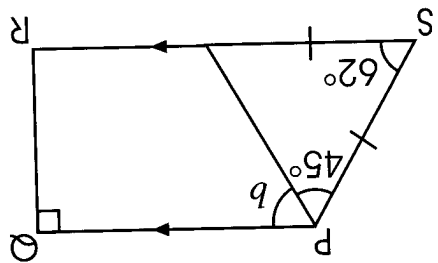


(a) ABCD is a rhombus.

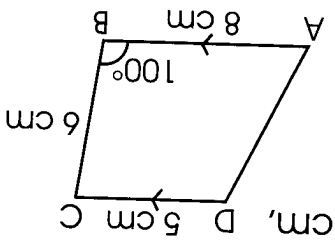
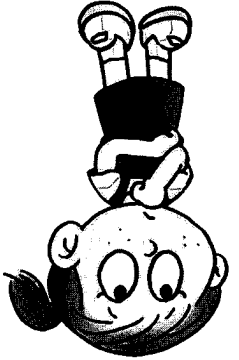
4. The following figures are **not** drawn to scale. Find the unknown angles.



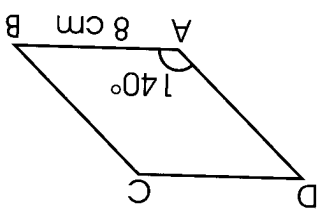
(d) ABCD is a trapezium.



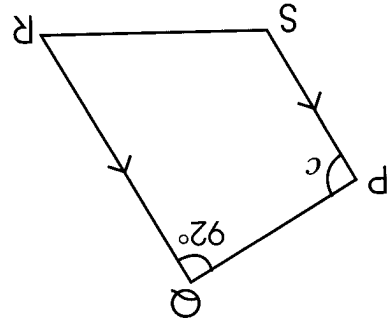
(c) PQRS is a trapezium.



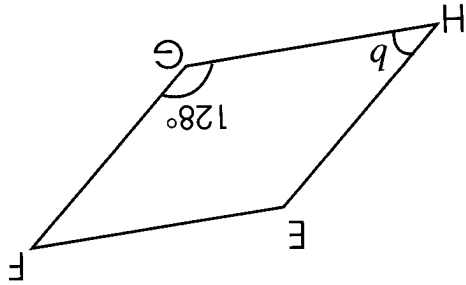
6. Draw a trapezium ABCD in which $AB \parallel DC$, $AB = 8$ cm, $CD = 5$ cm and $\angle ABC = 100^\circ$.



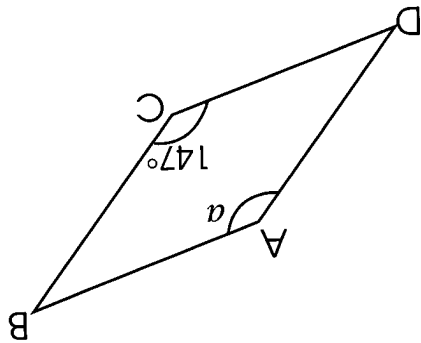
5. Draw a rhombus ABCD in which $AB = 8$ cm and $\angle DAB = 140^\circ$.



(c) PQRS is a trapezium.



(b) EFGH is a rhombus.

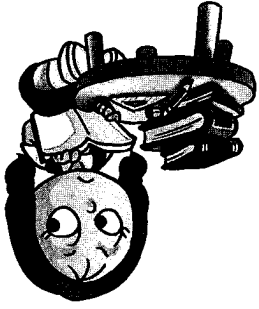


(a) ABCD is a parallelogram.

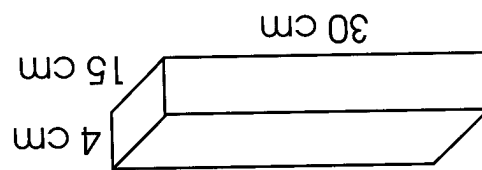
7. The following figures are **not** drawn to scale. Find the unknown angles.

8. The following solids are made up of 1-cm cubes. Find their volumes and write the answers in the boxes provided.

	(a)		(a)
	(b)		(a)
	(c)		(c)
	(d)		(c)
	(e)		(e)
	(f)		(e)



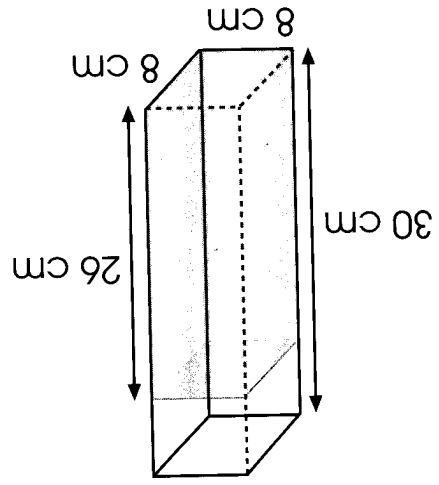
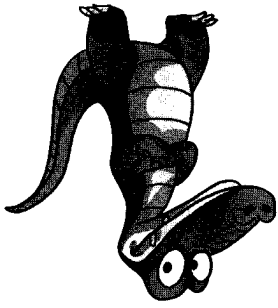
10. A rectangular carton measures 8 cm by 20 cm. It contains $\frac{1}{8}$ of milk. Find the empty space in the carton.



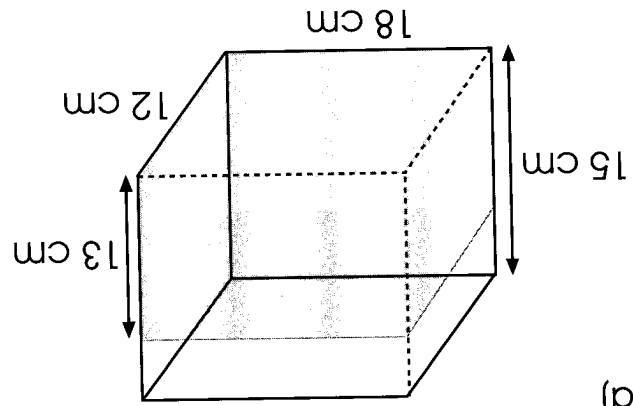
9. How many 1-cm cubes are needed to build a cuboid measuring 30 cm by 15 cm by 4 cm?

11. A tank measures 60 cm by 50 cm by 30 cm. Find its capacity in litres.

12. The length of a side of a cube is 16 cm. Find its volume.

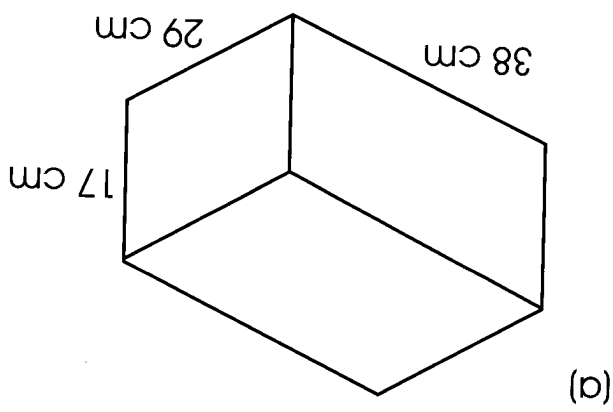
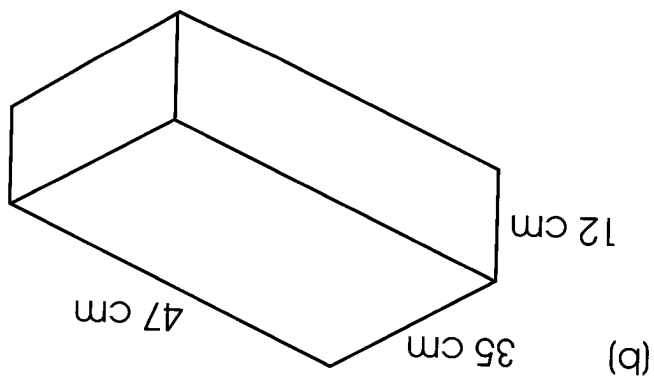


(b)



(a)

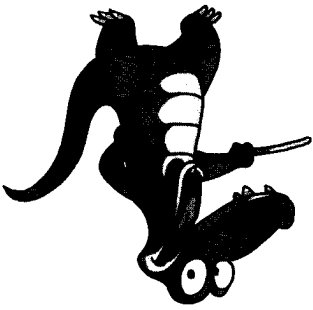
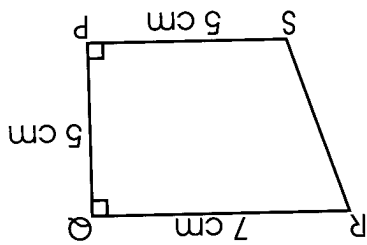
13. The following tanks are not completely filled with water. How many more millilitres of water are required to fill each of the tanks completely?



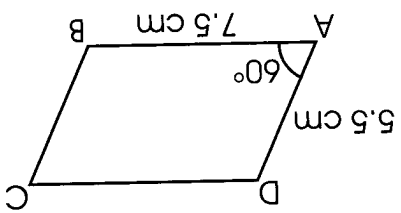
14. Find the volume of each cuboid shown below:

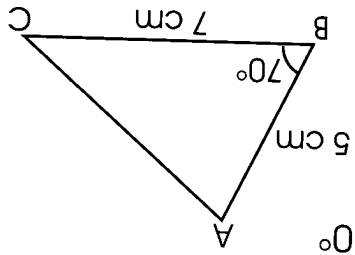


- 16.** Draw a trapezium PQRS in which
 $PQ = PS = 5\text{ cm}$, $QR = 7\text{ cm}$ and
 $\angle SPQ = \angle PQR = 90^\circ$.

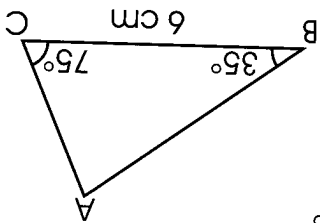


- 15.** Draw a parallelogram ABCD in which
 $AB = 7.5\text{ cm}$, $AD = 5.5\text{ cm}$
and $\angle BAD = 60^\circ$.





18. Draw a triangle ABC with $AB = 5$ cm, $\angle ABC = 70^\circ$ and $BC = 7$ cm.

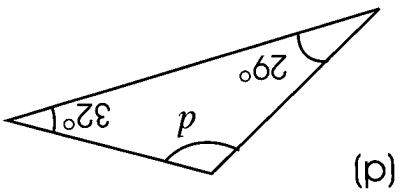
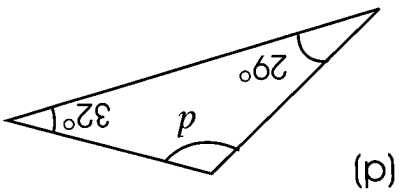
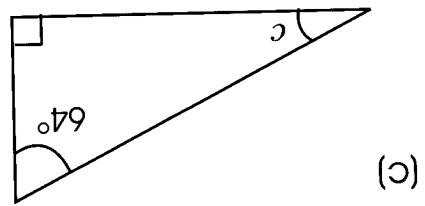
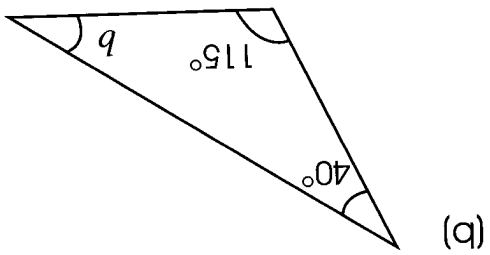


17. Draw a triangle ABC with $BC = 6$ cm, $\angle ABC = 35^\circ$ and $\angle ACB = 75^\circ$.

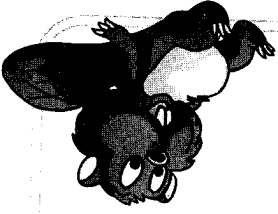
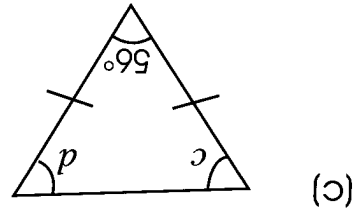
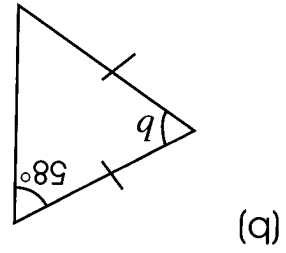
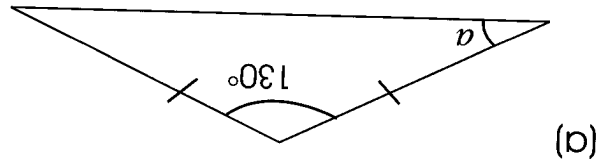
1. The following figures are **not** drawn to scale. Find the unknown angles.

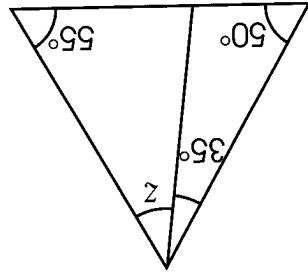


Date:

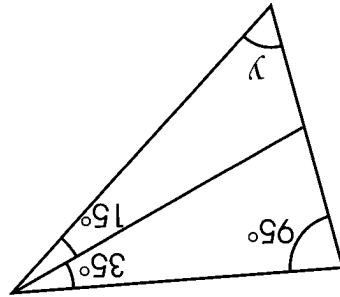


2. The following figures are **not** drawn to scale. Find the unknown angles.

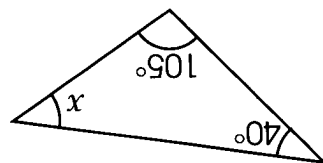




(f)

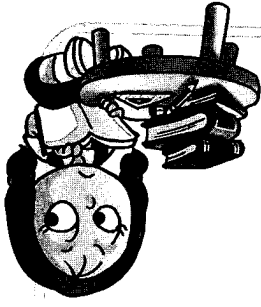
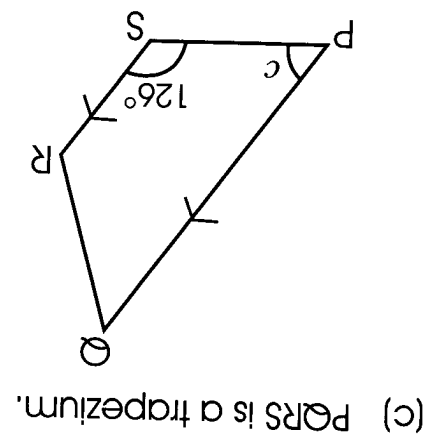
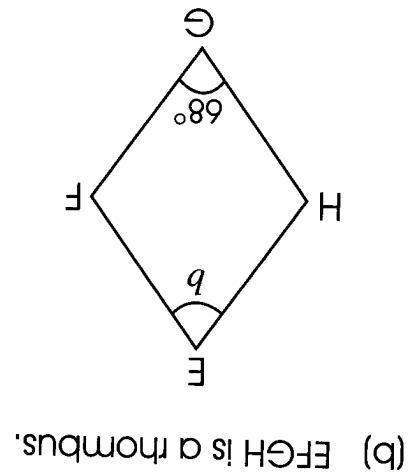
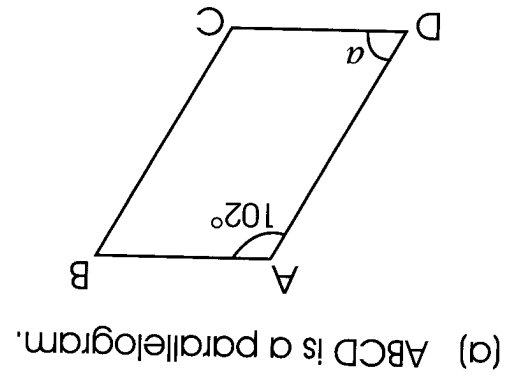


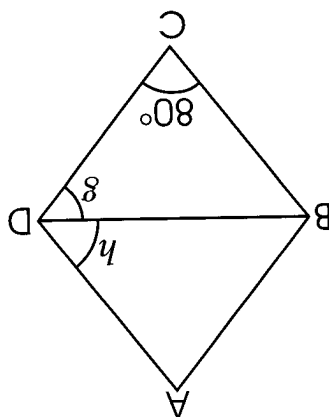
(e)



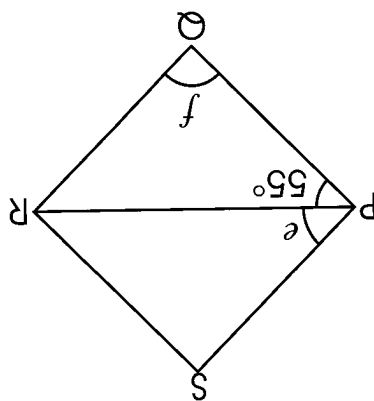
(d)

3. The following figures are **not** drawn to scale. Find the unknown angles.

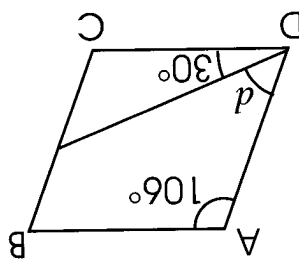




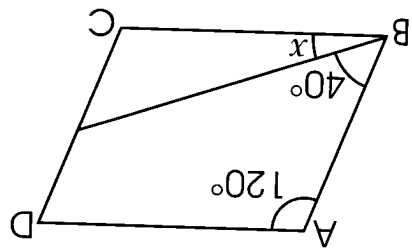
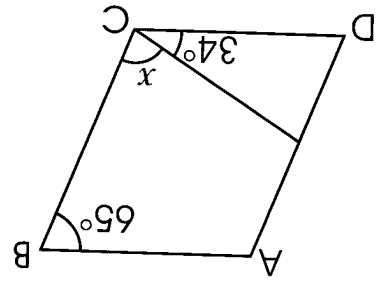
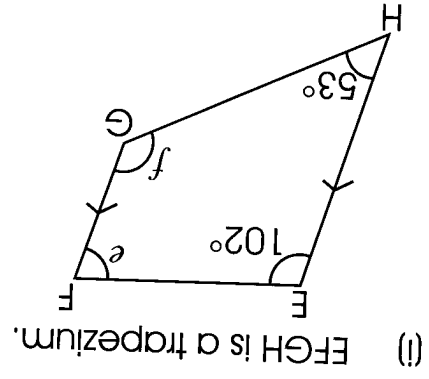
(f) ABCD is a rhombus.

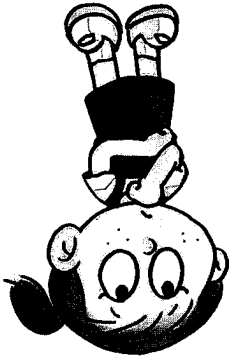


(e) PQRS is a rhombus.

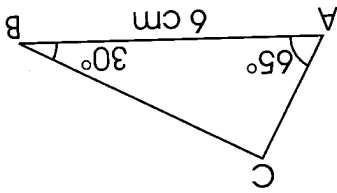


(d) ABCD is a parallelogram.

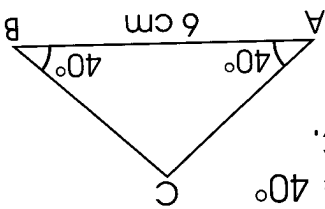


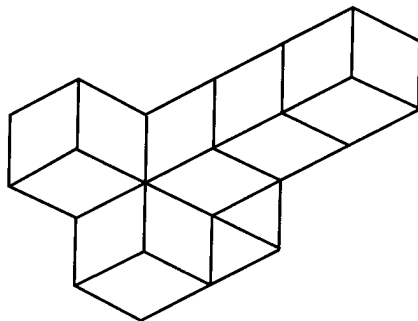
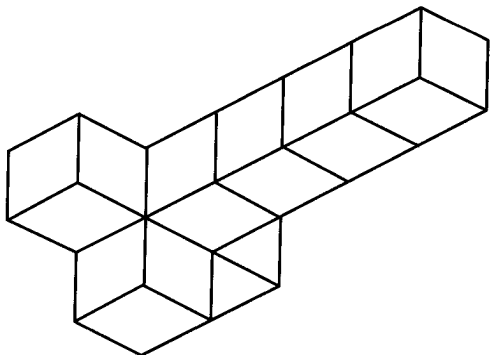
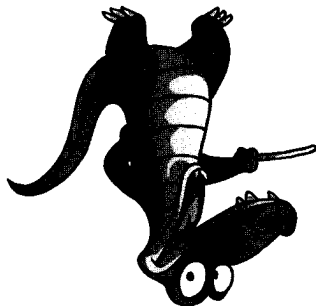


5. Draw a triangle ABC with $\angle ABC = 30^\circ$, $\angle CAB = 65^\circ$ and $AB = 6$ cm.

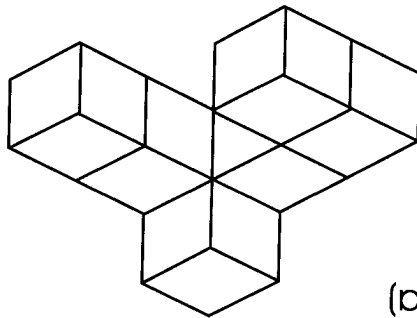
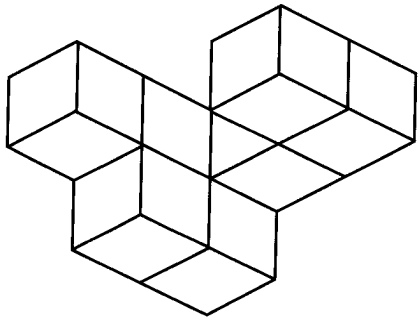


4. Draw a triangle ABC in which $AB = 6$ cm, $\angle CAB = 40^\circ$ and $\angle CBA = 40^\circ$. Measure the length AC and BC. What is the name of this triangle?





(a)



(a)

6. Circle the solid with the greater volume in each pair.

$$\ell \boxed{} = 125 \text{ cm}^3 \quad (\text{h})$$

$$\text{cm}^3 \boxed{} = 65 \ell \quad (\text{g})$$

$$\text{ml} \boxed{} = 50 \text{ cm}^3 \quad (\text{f})$$

$$\text{ml} \boxed{} = 0.35 \ell \quad (\text{e})$$

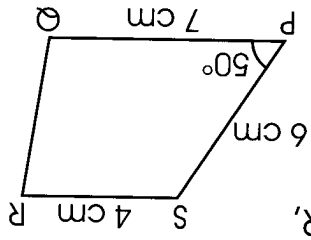
$$\text{cm}^3 \boxed{} = 215 \text{ ml} \quad (\text{d})$$

$$\ell \boxed{} = 150 \text{ cm}^3 \quad (\text{c})$$

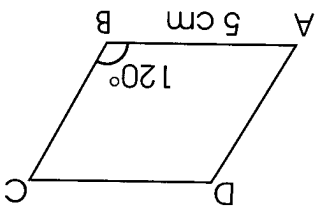
$$\text{cm}^3 \boxed{} = 3.05 \ell \quad (\text{b})$$

$$\ell \boxed{} = 7100 \text{ ml} \quad (\text{a})$$

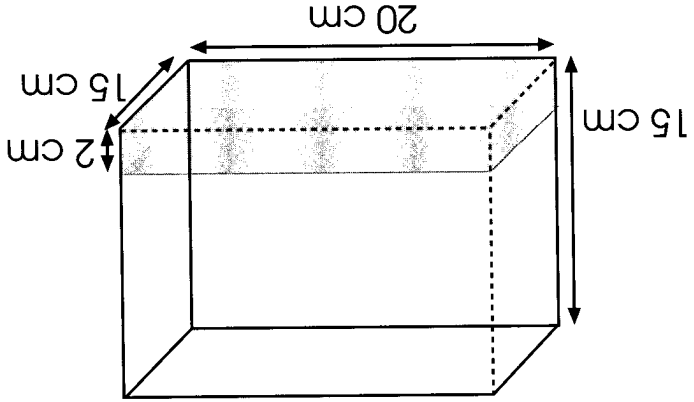
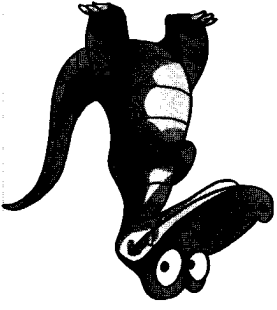
7. Fill in the blanks.



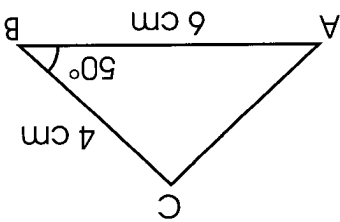
9. Draw a trapezium $PQRS$ in which PQ is parallel to SR ,
 $PQ = 7\text{ cm}$, $SR = 4\text{ cm}$, $SP = 6\text{ cm}$
 and $\angle SPQ = 50^\circ$.



8. Draw a rhombus $ABCD$ in which $AB = 5\text{ cm}$
 and $\angle ABC = 120^\circ$.



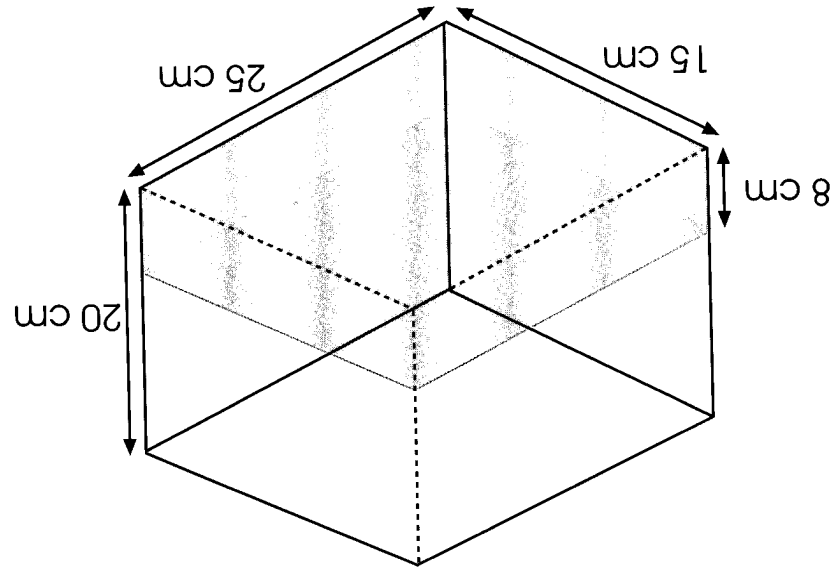
11. A tank measures 20 cm by 15 cm by 15 cm. The water level in the tank is 2 cm.
- Find the volume of water in the tank shown.
 - Find the volume of water required to fill the tank completely.



10. Draw a triangle ABC with $AB = 6$ cm, $\angle ABC = 50^\circ$ and $BC = 4$ cm.

12. A petrol can is 20 cm long, 12 cm wide and 25 cm high. If petrol costs \$1.40 per litre, how much will it cost to fill the can completely?

13. Boxes of video recorders are stacked and kept in a factory. Each box is 50 cm by 30 cm by 15 cm. Find the volume of 3 such boxes.



- 15.** A rectangular tank 25 cm long, 15 cm wide and 20 cm high is filled with water to a depth of 8 cm.
- (a) Find the volume of the water required to fill the tank completely in cubic centimetres.
- (b) Express this volume of water in litres and millilitres.