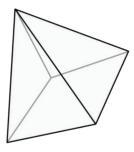
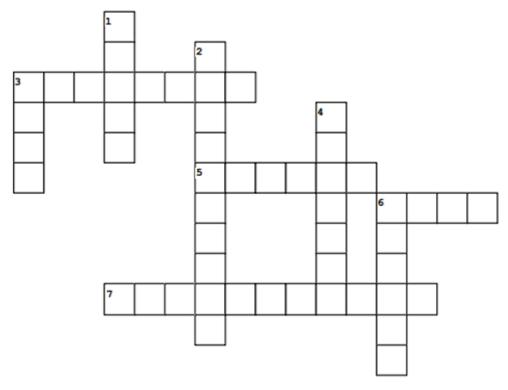
3D Shapes

How well do you know the shapes? Can you complete this crossword using the clues given below?





Across

- 3. has circular top and bottom
- 5. All points equidistant from the center
- 6. Has 6 square faces
- 7. triangular base and triangular faces meeting at apex

Down

- 1. two triangular bases joined by rectangular faces
- 2. flat circular base and every point equidistant from

the center

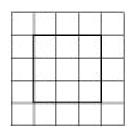
- 3. circular base with single vertex
- 4. outer triangular faces meet at apex
- 6. six rectangular faces

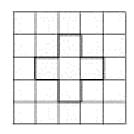
7. Tetrahedron 6. Cube 5. Sphere 3. Cylinder Across: Answers

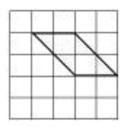
5. 6. Cuboid 4. Pyramid Cone .ε Hemisphere 7. msinq ٦. :uwoQ Answers

Fun with Area

Estimate the areas of the following figures if the area of one tile is 1 sq. unit

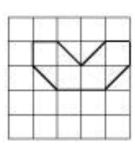




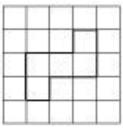


3

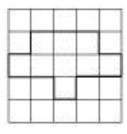
1



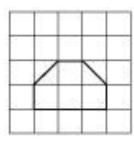
2



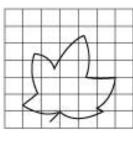
5



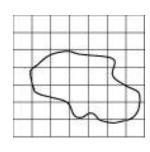
6



7



8



9

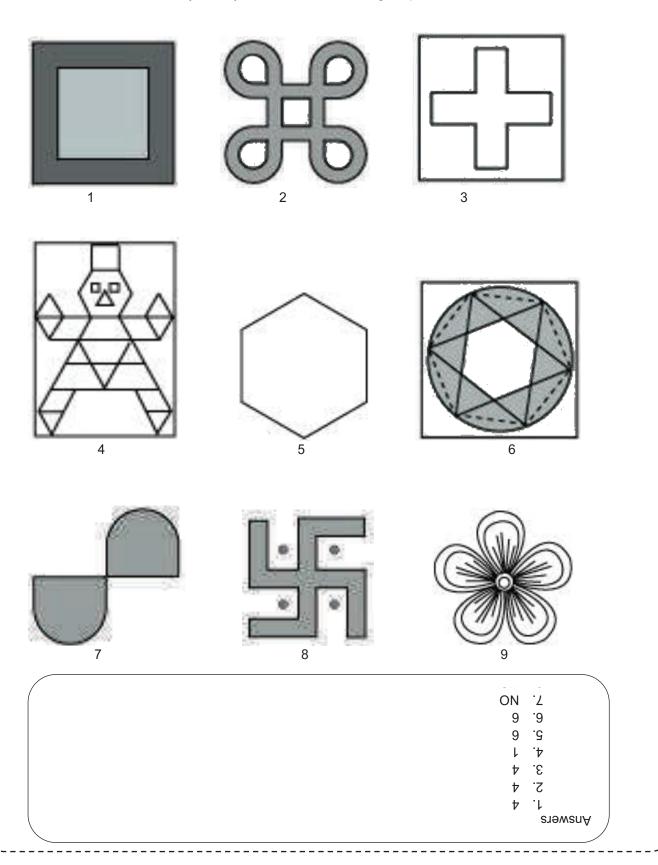
filled squares. So estimated area is 8 + 10 = 18 sq. unit

- The figure has 8 fully filled squares, 10 more than half filled squares and 9 less than half filled squares. So estimated area is 5 + 9 = 14 sq. unit
- The figure has 5 fully filled squares, 9 more than half filled squares and 12 less than half .8 be 5 square units
- The figure contains 4 fully filled squares and 2 half-filled squares. Therefore, the area will
 - 4 square units.
 - 10 square units. .6
 - 8 square units.
 - 4 square units. .ε
 - 5 square units.
 - 1. 9 square units.

Answers

Lines of Symmetry

Draw and find the lined of symmetry for each of the following shapes





Mensuration



Match the following

- 1. Perimeter of a rectangle

a. 3 × Length of a side

- 2. Perimeter of a square

b. Length × Breadth

3. Perimeter of an equilateral triangle ●

c. 8 × Length of a side

4. Perimeter of a regular pentagon

d. 4 × Length of a side

5. Area of a square

e. 6 × Length of a side

6. Perimeter of a regular octagon

• f. 2 × (Length + Breadth)

7. Area of a rectangle

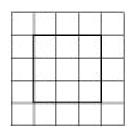
g. 5 × Length of a side

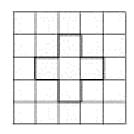
8. Perimeter of a regular hexagon

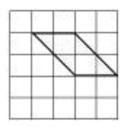
h. side × side

Fun with Area

Estimate the areas of the following figures if the area of one tile is 1 sq. unit

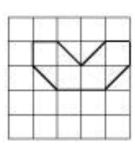




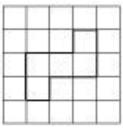


3

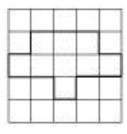
1



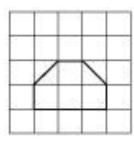
2



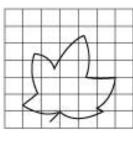
5



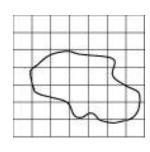
6



7



8



9

filled squares. So estimated area is 8 + 10 = 18 sq. unit

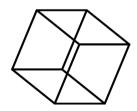
- The figure has 8 fully filled squares, 10 more than half filled squares and 9 less than half filled squares. So estimated area is 5 + 9 = 14 sq. unit
- The figure has 5 fully filled squares, 9 more than half filled squares and 12 less than half .8 be 5 square units
- The figure contains 4 fully filled squares and 2 half-filled squares. Therefore, the area will
 - 4 square units.
 - 10 square units. .6
 - 8 square units.
 - 4 square units. .ε
 - 5 square units.
 - 1. 9 square units.

Answers

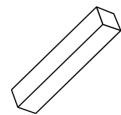
Geometry & shapes: Measure



Measure the shapes and write the area.



side of the square is 5cm



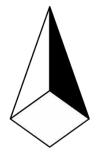
lengh is 5cm, breadth is 2 cm and height is 3cm



height is 12cm, radius 5cm



height is 10cm, radius 5cm

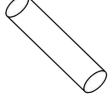


base lengh is 5cm, base width is 2 cm and height is 3cm

Answer Key: square 150 sq.cm, cuboid 62sq.cm, cone 282.74 sq.cm, cylinder 471.24 sq.cm, pyramid 33.62 sqcm

	es: rormula 	00000
Write the a	area formula for given shapes.	
	semi circle	
	hexagonal prism	
	sphere	
	cone	

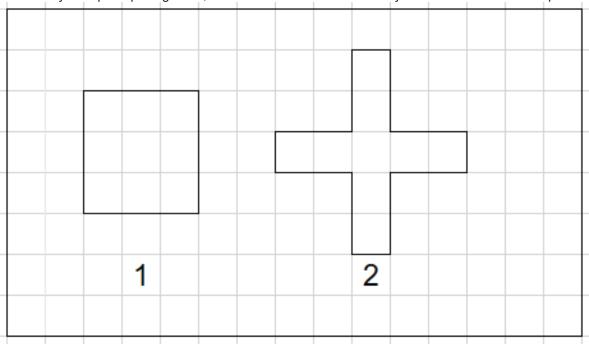
Geometry & shapes: Formula		
Name the shapes and give their surface area formula.		
	_	



Answer Key: Cube 6a^2 , cubiod 2lw+2lh+2hw, cylinder 2mth+2m2

Perimeter and Area

Rishab buys 9 square paving slabs, each with a side of 1/2 m. He lays them in the form of a square.



- (a) What is the perimeter of his arrangement [figure (1)]?
- (b) Pari does not like his arrangement. She gets him to lay them out like a cross. What is the perimeter of her arrangement [figure (2)]?
- (c) Which has greater perimeter?
- (d) Rishab wonders if there is a way of getting an even greater perimeter. Can you find a way of doing this? (The paving slabs must meet along complete edges i. e. they cannot be broken.)

(d) Cannot be determined

(c) Square

m 01 (d)

(a) 3/2 m

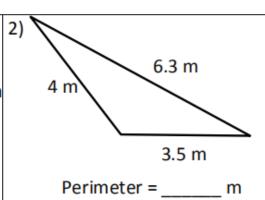
:nswer:

Perimeter

Find the perimeter of the following figures. Perimeter = Sum of all sides of a figure.

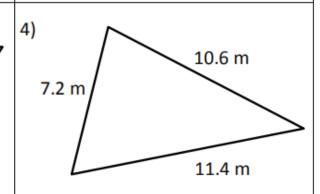
1) 7.2 cm 2.8 cm

Perimeter = ____ cm

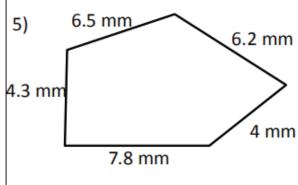


7.3 cm 3) 2.8 cm 6.2 cm

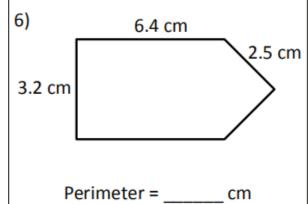
Perimeter = ____ cm



Perimeter = ____ m



Perimeter = ____ mm



mo fs (8 mm 8.85 (8 m 5.95 (4 mo 8.15 (8 m 8.81 (2 mo 05 (1

Answers