Test Yourself   Chapter 3 Plane and solid shapes
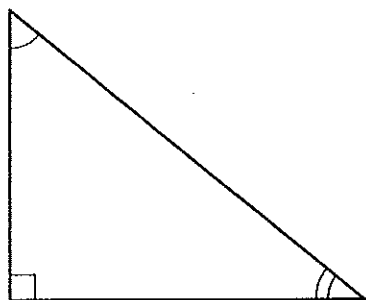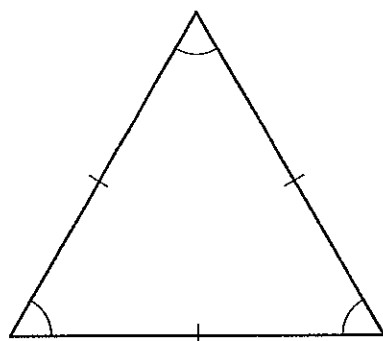
Name: _____

All Multiple Choice

1   An equilateral triangle is shown next to the letter:
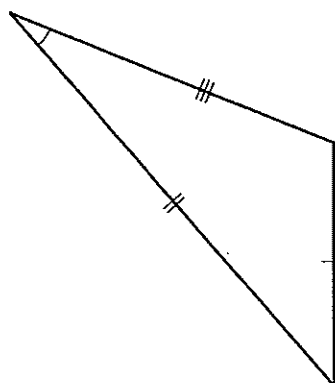
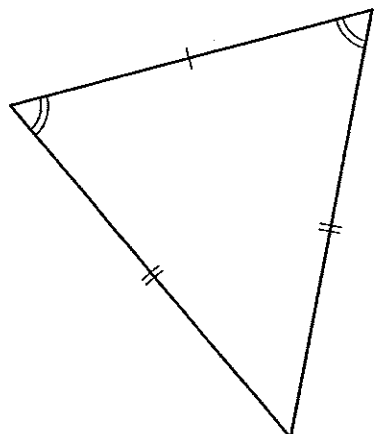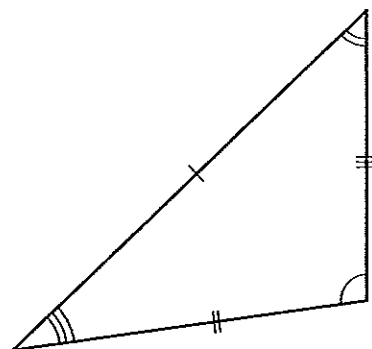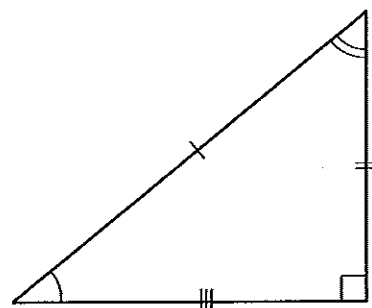A

B

C

D

2   The triangle which *is not* scalene is:
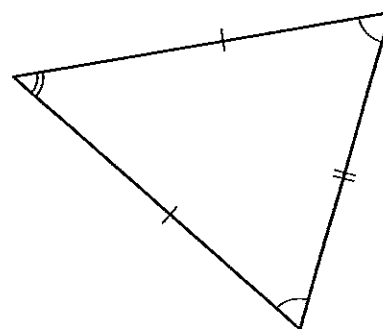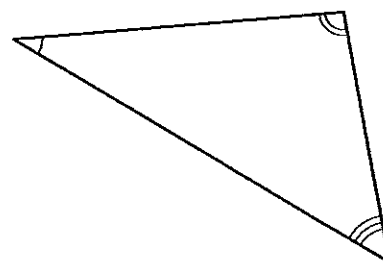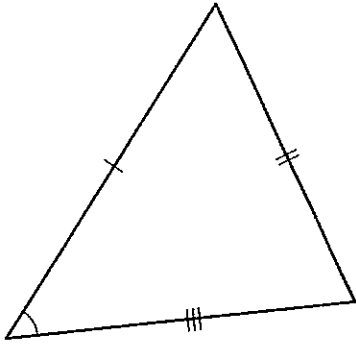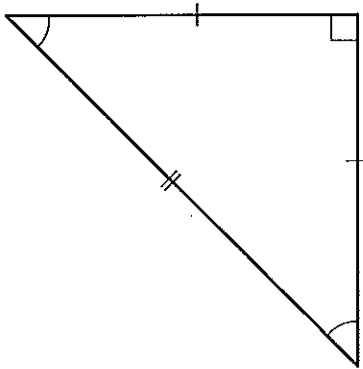
A

B

C

D

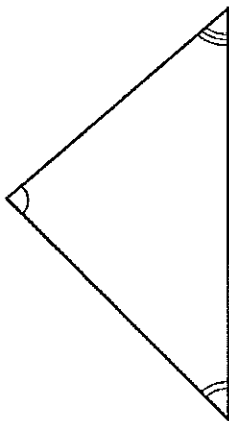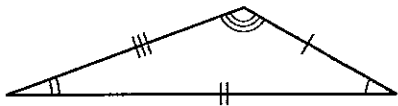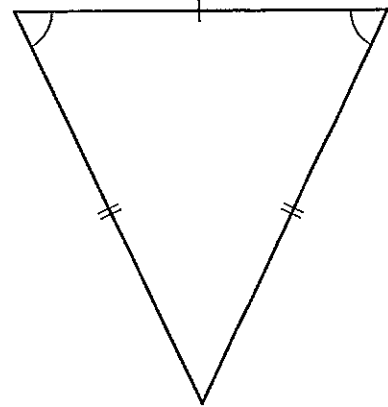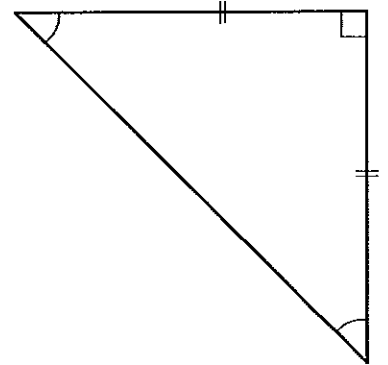**3**   The triangle which has an obtuse angle
is:

A

B

C

D

4   The triangle which is both acute-angled
and isosceles is:

A

B

C

D

5 The quadrilateral shown is a:
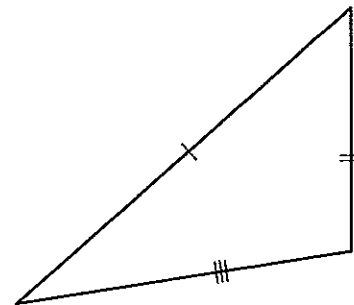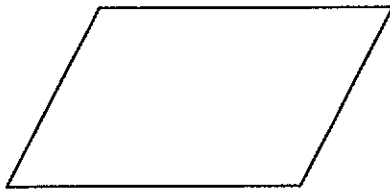

A rectangle
B rhombus
C kite
D parallelogram

6 An octagon has the following number of sides.
A 5
B 6
C 7
D 8

7 The name given to a polygon with eleven sides is a:
A dodecagon
B pentagon
C undecagon
D decagon

8 The name given to the polygon below is:

A quadrilateral
B hexagon
C heptagon
D pentagon

9 The shape which *is not* a polygon is:

A

B

C

D
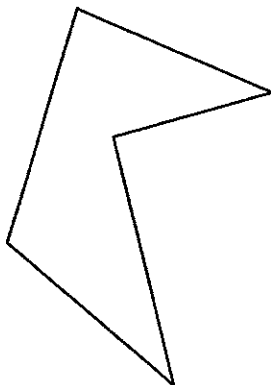
10 The polygon formed by the letter H shown below is a:

A   nonagon
B   decagon
C   undecagon
D   dodecagon

11
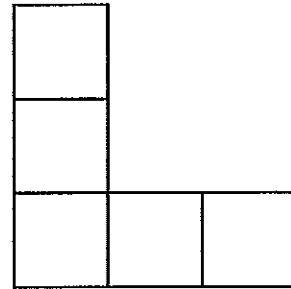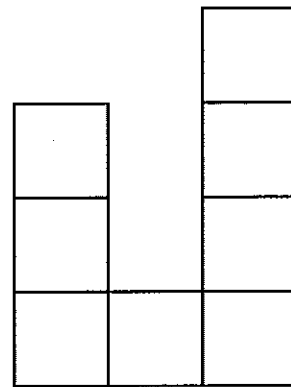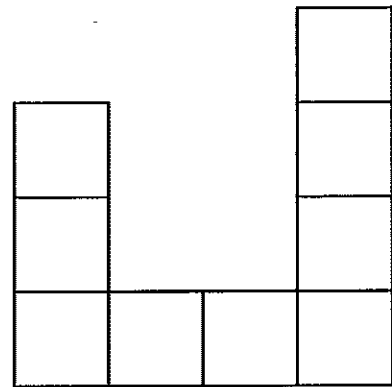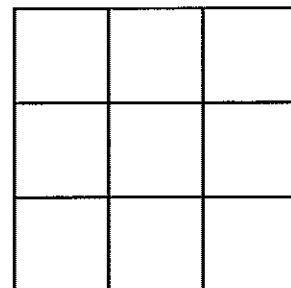
Front

The left side view of the above figure would be:

A

B

C

D

12 The top view of this figure would be:

Front

A

B

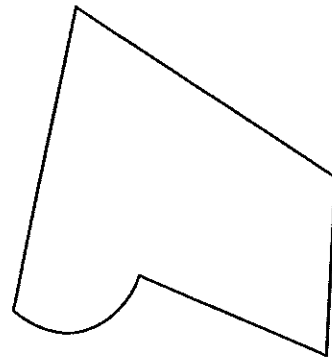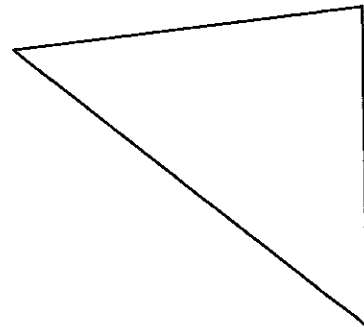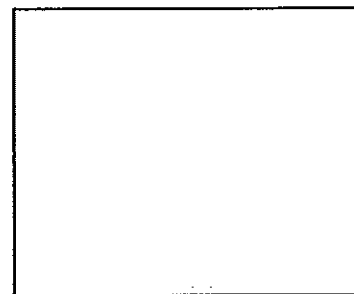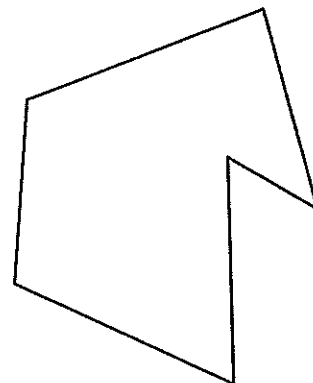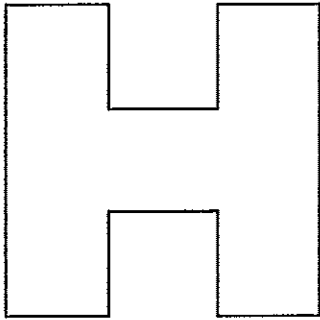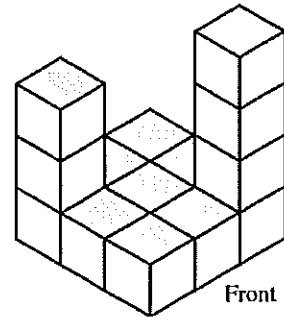

C

D

13 A polygon with 8 faces and 4 vertices must have the following number of edges.

A   4
B   6
C   10
D   12
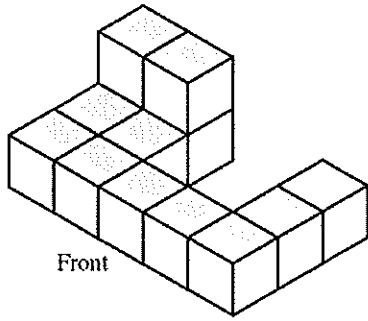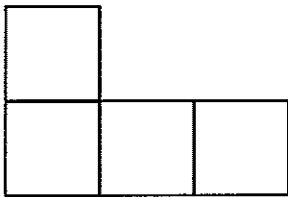
14 A polygon with 5 vertices and 7 edges must have the following number of faces.

A   A   4
B   B   5
C   C   6
D   D   7

15 A polygon with 7 faces and 10 edges must have the following number of vertices.

A   4
B   5
C   6
D   7

16 The net of this figure would be:

4 cm

1 cm

2 cm

A

B

C

D

17 The letter Y has the following number of axes of symmetry:

A   0

B   1

C   2

D   3

18

The figure above has the following number of axes of symmetry:

A   1

B   2

C   3

D   4

19

The translation shown above is:

A   11 units left, 6 up

B   6 units right, 11 down

C   6 units left, 11 up

D   10 units down, 6 right

20 A single translation that would have taken the object from its starting point to its final position for the translation 8 units left, 2 down, 4 right, 3 up, 4 left, 6 up would be:

A 0 units left, 7 up

B 16 units right, 11 up

C 7 units up, 8 left

D 12 units down, 4 right

21

The translation shown above is:

A 10 units right, 7 up

B 10 units left, 7 up

C 7 units up, 10 down

D 7 units left, 10 up

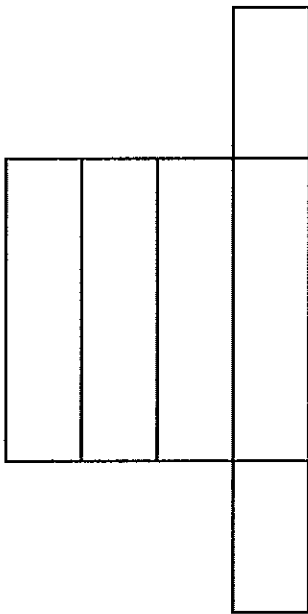**22** The object *h* has undergone a translation of 5 units down, 6 right. The image *h'* would appear as:

A

B

C

D

23 The object k has undergone a translation of 4 units up, 3 right, 2 down, 5 right, 2 up, 10 left. The image k' would appear as:

A

B

C

D

24

The rotation about the dot that has taken place in the figure above is:

A $\frac{1}{4}$ turn clockwise
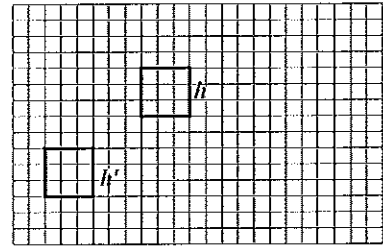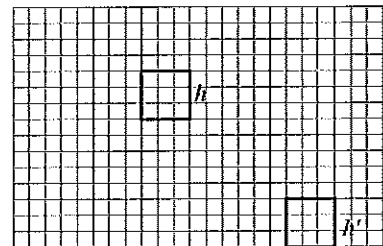
B $\frac{1}{4}$ turn anticlockwise

C $\frac{1}{2}$ turn clockwise

D   full turn

25

The rotation about the dot that has taken place in the figure above is:

A $\frac{1}{4}$ turn clockwise

B $\frac{1}{4}$ turn anticlockwise

C $\frac{1}{2}$ turn clockwise

D $\frac{3}{4}$ turn anticlockwise

26

The clockwise rotation that has taken place in the figure above is:

A   45°
B   90°
C   135°
D   270°

27

The smallest rotation that is needed for the image to be the same as the object in the figure above is:
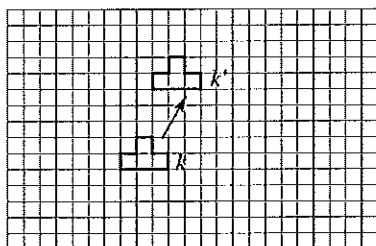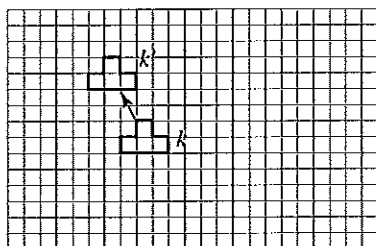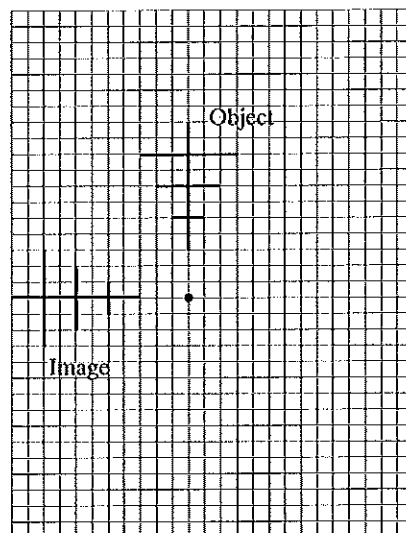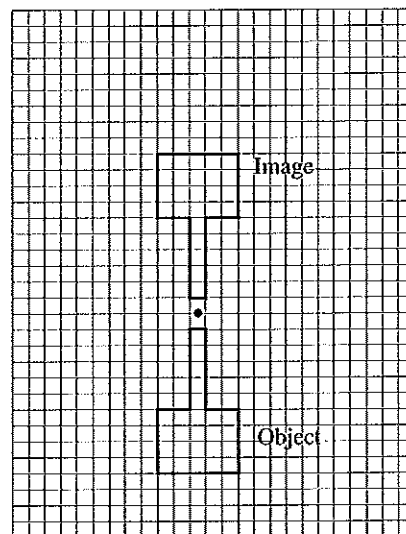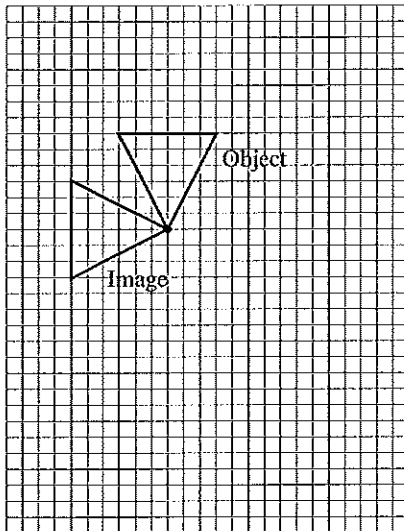
A $\frac{1}{4}$ turn clockwise
B   90°
C $\frac{1}{2}$ turn
D   full turn

28

The smallest rotation needed for the image to be the same as the object in the figure above is:

A   45°
B $\frac{1}{4}$ turn
C   135°
D $\frac{1}{2}$ turn

29

The smallest rotation needed for the image to be the same as the object in the figure above is:

A   45°
B $\frac{1}{4}$ turn
C $\frac{1}{2}$ turn
D   full turn

..\Test Yourself answers\MQ7 NSW Ch03 TY ans.doc

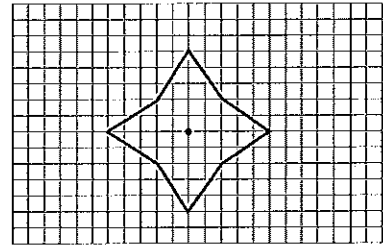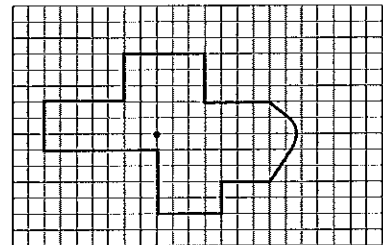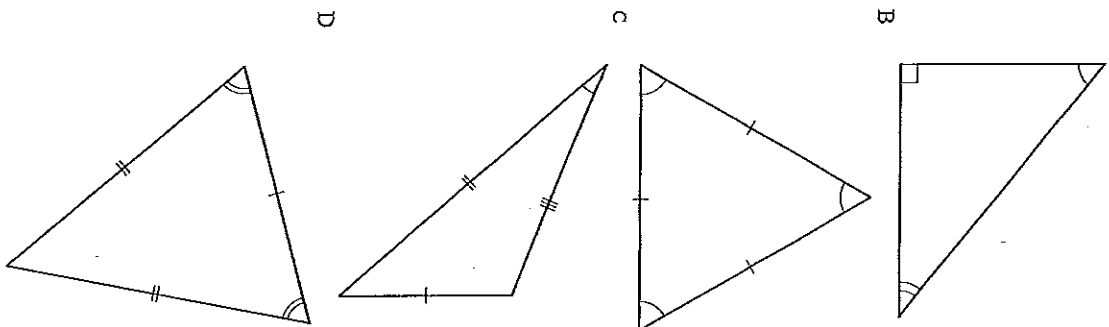# Test Yourself   Chapter 3 Plane and solid shapes

Name: _____

All Multiple Choice

1 An equilateral triangle is shown next to the letter: A B C
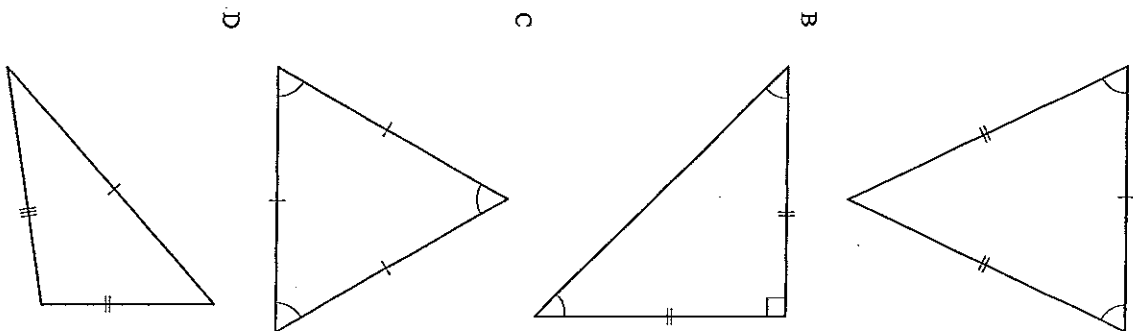
A

B

C

D

2 The triangle which *is not* scalene is: C

A

B

C

D

3 The triangle which has an obtuse angle is: D

A

B

C

D

4 The triangle which is both acute-angled and isosceles is: A

A

B

C

D

5 The quadrilateral shown is a:

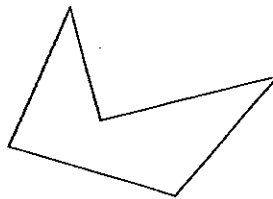A   rectangle
B   rhombus
C   kite
D   parallelogram

6 An octagon has the following number of sides.

A   5
B   6
C   7
D   8

7 The name given to a polygon with eleven sides is a:

A   dodecagon
B   pentagon
C   undecagon
D   decagon

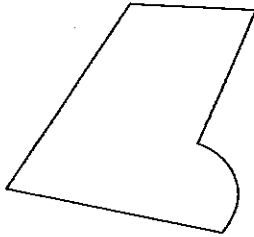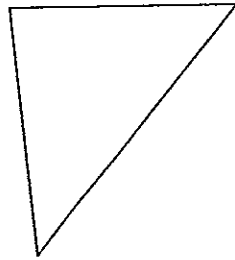**8** The name given to the polygon below is:

A   quadrilateral
B   hexagon
C   heptagon
D   pentagon

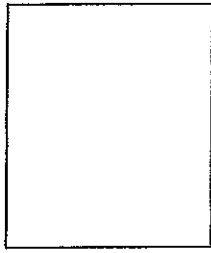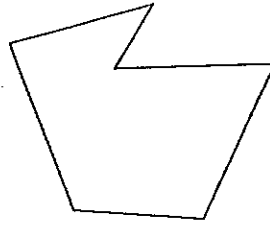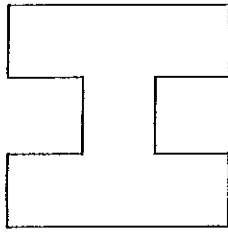**9** The shape which *is not* a polygon is:

A

B

C

D

10 The polygon formed by the letter H shown below is a:
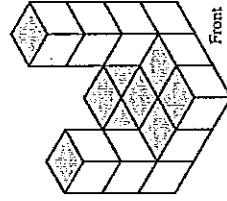

A   nonagon
B   decagon
C   undecagon
D   dodecagon
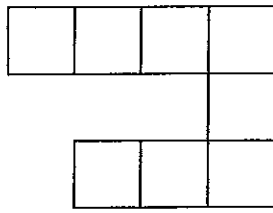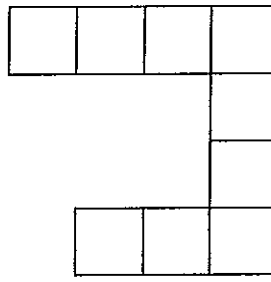
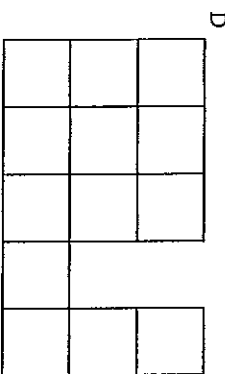
Front
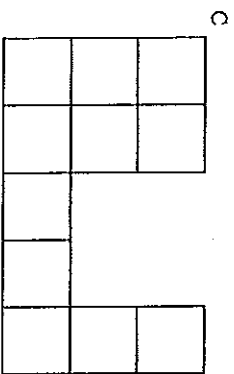
The left side view of the above figure would be:

A

B
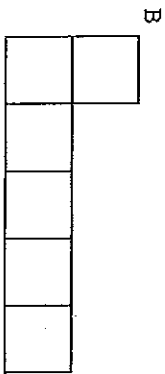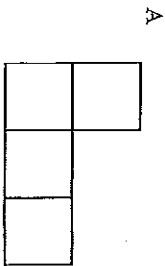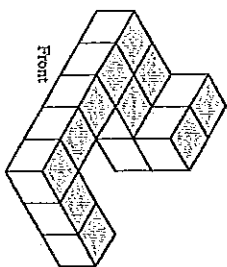

C

D

12   The top view of this figure would be: C

Front

A

B

C

D

13   A polygon with 8 faces and 4 vertices must have the following number of edges.
   A   4
   B   6
   C   10
   D   12

14   A polygon with 5 vertices and 7 edges must have the following number of faces.
   A   4
   B   5
   C   6
   D   7
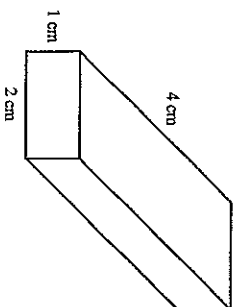
15   A polygon with 7 faces and 10 edges must have the following number of vertices.
   A   4
   B   5
   C   6
   D   7

16   The net of this figure would be:

1 cm
2 cm
4 cm

A

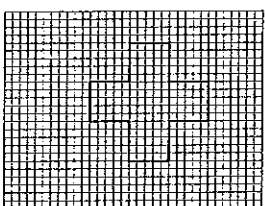B

C

D

17   The letter Y has the following number of axes of symmetry:
   A   0
   B   1
   C   2
   D   3

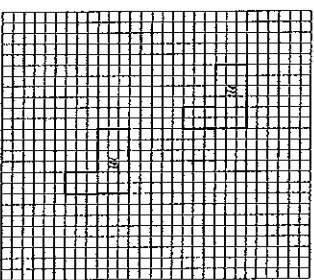18   The figure above has the following number of axes of symmetry:
   A   1
   B   2
   C   3
   D   4

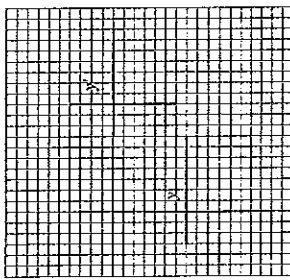19   The translation shown above is:
   A   11 units left, 6 up
   B   6 units right, 11 down
   C   6 units left, 11 up
   D   10 units down, 6 right

20 A single translation that would have taken the object from its starting point to its final position for the translation 8 units left, 2 down, 4 right, 3 up, 4 left, 6 up would be:

A   0 units left, 7 up

B   16 units right, 11 up
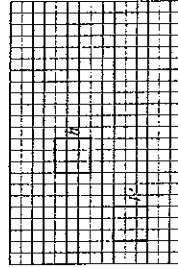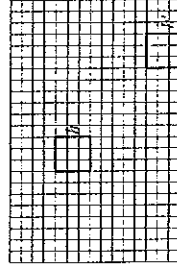
C   7 units up, 8 left

D   12 units down, 4 right

21

The translation shown above is:

A   10 units right, 7 up

B   10 units left, 7 up
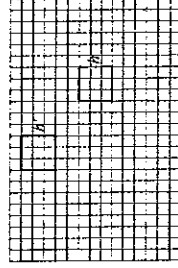
C   7 units up, 10 down

D   7 units left, 10 up

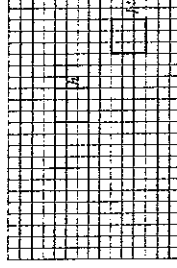**22** The object h has undergone a translation of 5 units down, 6 right. The image h' would appear as:
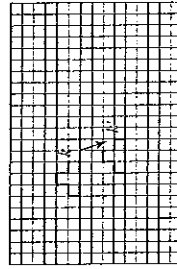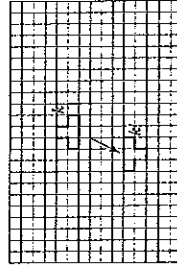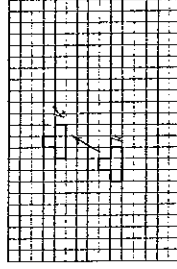
A

B

C

D

23 The object k has undergone a translation of 4 units up, 3 right, 2 down, 5 right, 2 up, 10 left. The image k' would appear as:

A

B

C

D

24

The rotation about the dot that has taken place in the figure above is:

A $\frac{1}{4}$ turn clockwise

B $\frac{1}{4}$ turn anticlockwise

C $\frac{1}{2}$ turn clockwise

D   full turn

25
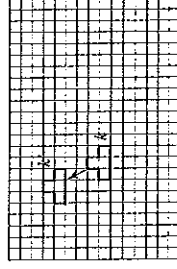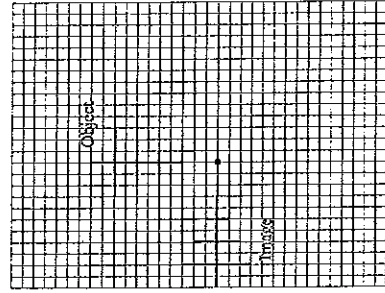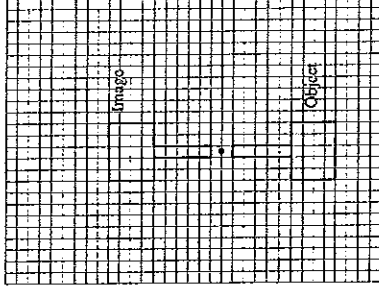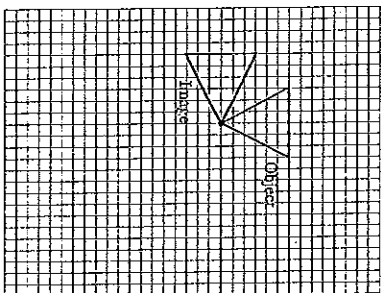
The rotation about the dot that has taken place in the figure above is:

A $\frac{1}{4}$ turn clockwise

B $\frac{1}{4}$ turn anticlockwise

C $\frac{1}{2}$ turn clockwise
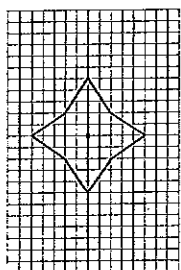
D $\frac{3}{4}$ turn anticlockwise

26

The clockwise rotation that has taken place in the figure above is:

A   45°
B   90°
C   135°
D   270°

          D

27

The smallest rotation that is needed for the image to be the same as the object in the figure above is:

A $\frac{1}{4}$ turn clockwise
B   90°
C $\frac{1}{2}$ turn
D   full turn

          C

28

The smallest rotation needed for the image to be the same as the object in the figure above is:

A   45°
B $\frac{1}{4}$ turn
C   135°
D $\frac{1}{2}$ turn

          B

29
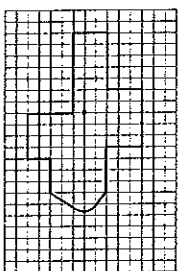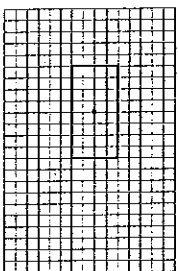
The smallest rotation needed for the image to be the same as the object in the figure above is:

A   45°
B $\frac{1}{4}$ turn
C $\frac{1}{2}$ turn
D   full turn

          D