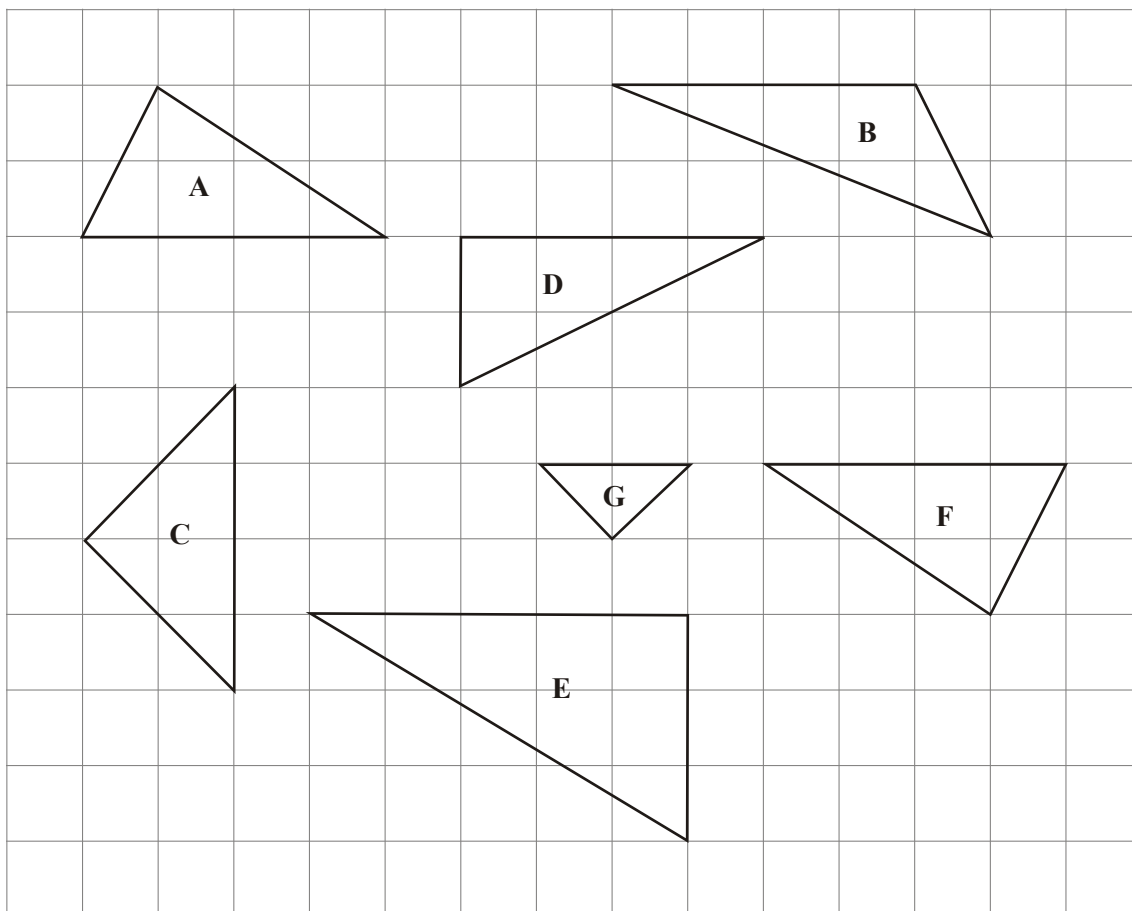


1.



(a) Write down the letter of an isosceles triangle.

.....

(1)

(b) Write down the letters of **two** triangles which are congruent.

..... and

(1)

Triangle C is an enlargement of triangle G.

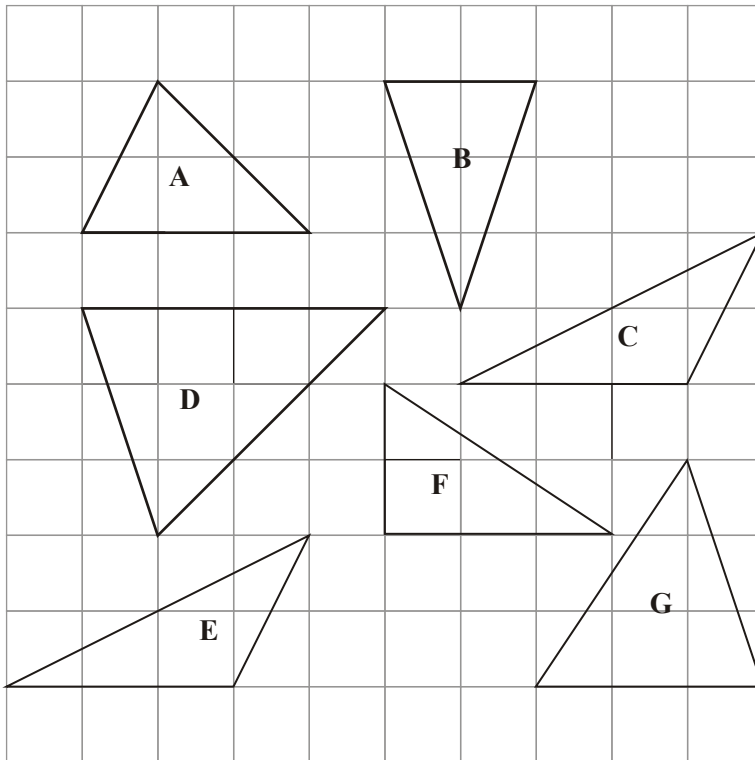
(c) Write down the scale factor of this enlargement.

.....

(1)

(Total 3 marks)

2. Here are some triangles.



(a) Write down the letter of the triangle that is

(i) right-angled,

.....

(ii) isosceles.

.....

(2)

Two of the triangles are congruent.

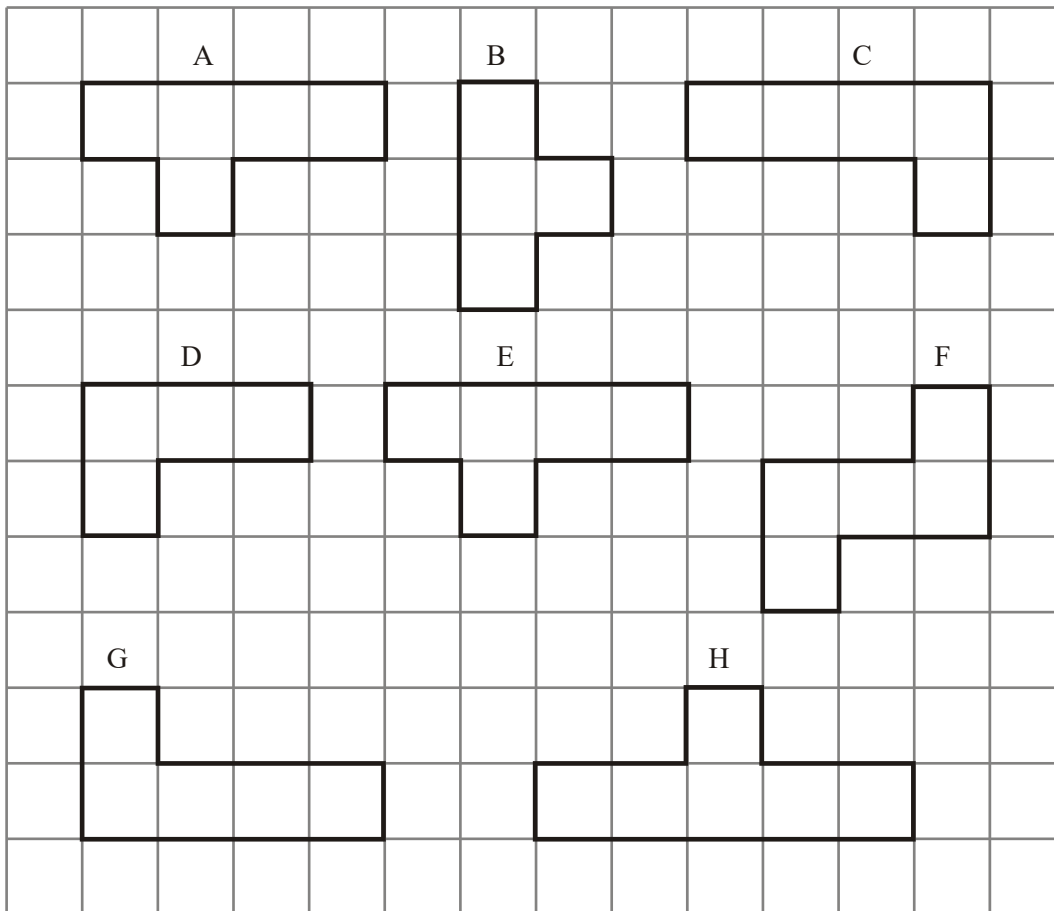
(b) Write down the letters of these two triangles.

..... and

(1)

(Total 3 marks)

3. Here are 8 shapes.



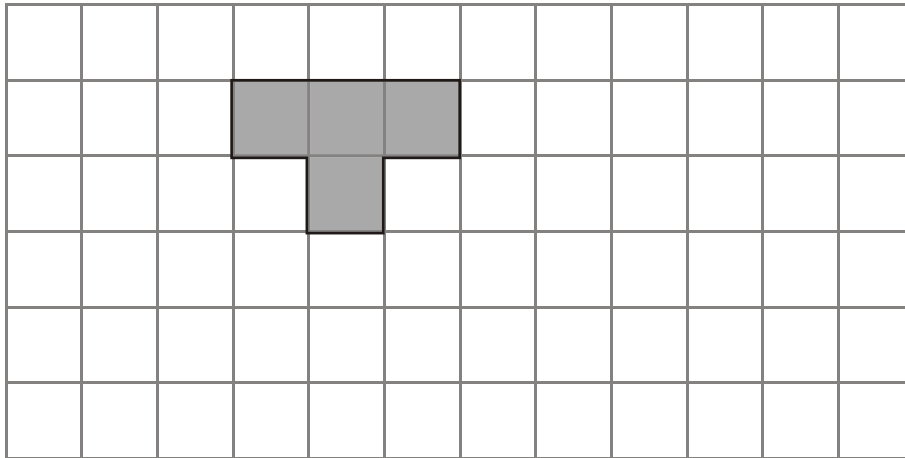
(a) Write down the letters of two **different** pairs of congruent shapes.

..... and

..... and

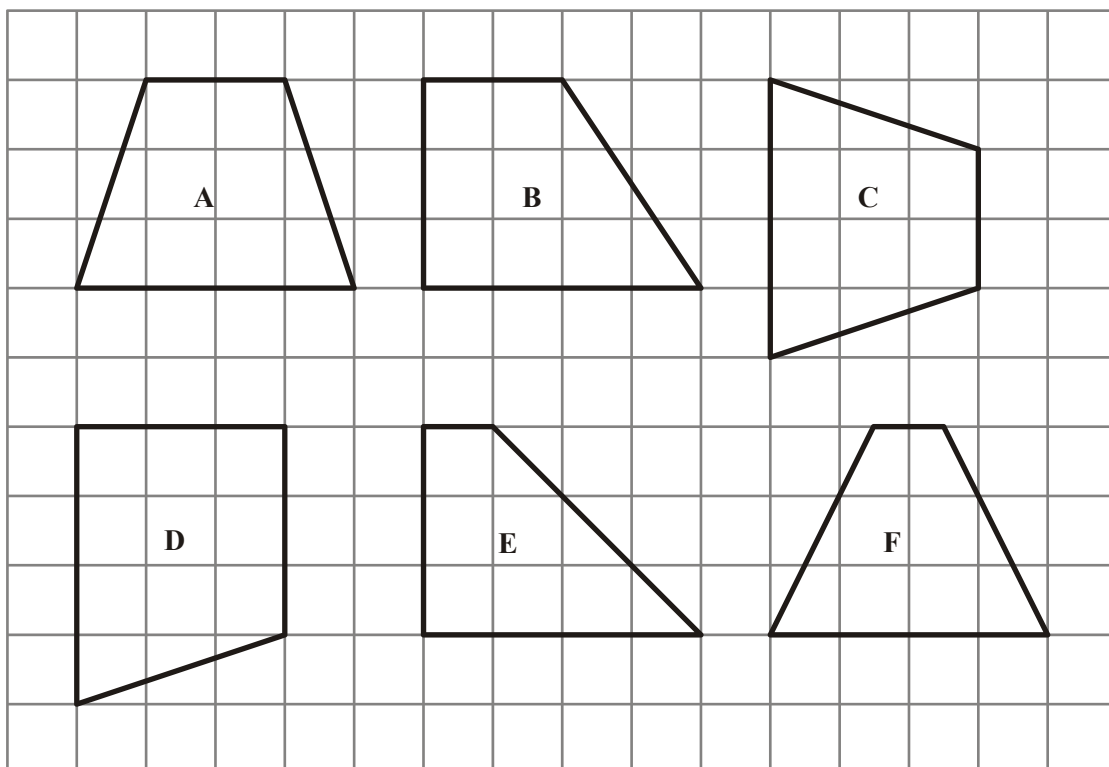
(2)

- (b) On the grid, show how the shaded shape will tessellate.
You must draw at least 6 shapes.



(2)
(Total 4 marks)

4. Here are 6 shapes drawn on a grid.



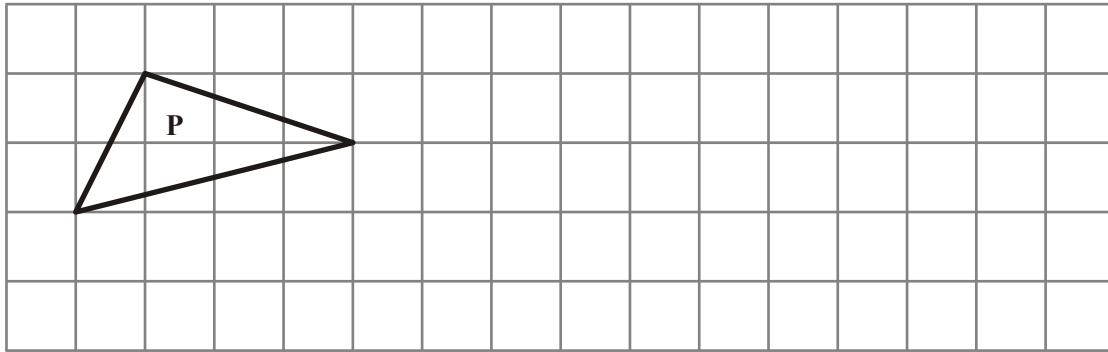
Two of these shapes are congruent.

(a) Write down the letters of these two shapes.

..... and

(1)

(b) On the grid below, draw a shape that is congruent to shape **P**.



(1)

(Total 2 marks)

- | | | | | |
|----|-----|---------|----------------------------------------------|---|
| 1. | (a) | C or G | <i>Bl at least one of C or G (no extras)</i> | 1 |
| | (b) | A and F | <i>Bl cao</i> | 1 |
| | (c) | 2 | <i>Bl (accept -2)</i> | 1 |

[3]

- | | | | | | |
|----|-----|---------|--------------------|-----------|---|
| 2. | (a) | (i) | F | <i>Bl</i> | 2 |
| | | (ii) | B | <i>Bl</i> | |
| | (b) | C and E | <i>Bl for both</i> | 1 | |

[3]

- | | | | |
|----|------------------------------------------------------------------------------------------------------------------------|---|------------|
| 3. | (a) A and E, C and G
<i>B1 for first correct pair</i>
<i>B1 for second correct pair</i> | 2 | |
| | (b) B2 for at least 5 extra correct tessellating shapes (no gaps)
<i>[B1 for any 3 correct tessellating shapes]</i> | 2 | [4] |
| | | | |
| 4. | (a) A and C
<i>B1 c for A and C or C and A</i> | 1 | |
| | (b) Shape drawn
<i>B1 for correct shape, any orientation or reflection, ± 2 mm</i> | 1 | [2] |

1. The terms “isosceles” and “congruent” are clearly not well understood. The first two parts of this question were answered correctly by about 25% and 35% of candidates respectively. Some candidates identified similar or right-angled triangles in part (b).

The scale factor was given correctly by only about one in four candidates. A common incorrect answer seen was “3”. However a significant number of candidates did not answer this part of the question.

2. Part (a) this question was well understood with 64% of candidates gaining full marks. A small percentage of candidates (8%) scored no marks as they thought triangle A was right-angled and triangle G was isosceles. This was probably to do with the orientation of the given shapes. Part (b) was also well done with 80% of candidates obtaining the mark though a some candidates thought that triangles G and D or A and C were congruent.

3. Part (a) was well answered. There were very few responses in part (b) that attracted any marks. Frequently the shapes were put together in such a way that there were gaps on the grid. There appeared to be little understanding of tessellation.

4. Writing down the correct letters of the two shapes that were congruent resulted in a 79% success rate for part (a). Use of tracing paper would have ensured accuracy.

In part (b) there appeared to be a fairly good understanding of the word 'congruent' with just over half the candidates drawing a shape that was identical to the given one. It would have been sufficient to merely draw the shape again a few squares to the right to earn full marks. However, for some reason, possibly because they did not understand what was required, many inverted the shape, rotated the shape or reflected the shape which resulted in the task being made much more demanding.