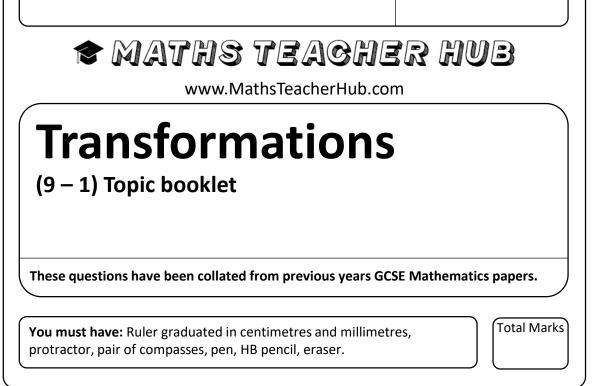
Name

Class



Instructions

•Use **black** ink or ball-point pen.

•Fill in the boxes at the top of this page with your name, centre number and candidate number.

- •Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.

•Diagrams are NOT accurately drawn, unless otherwise indicated.

•You must show all your working out.

•If the question is a **1F** question you are not allowed to use a calculator.

•If the question is a 2F or a 3F question, you may use a calculator to help you answer.

Information

•The marks for each question are shown in brackets

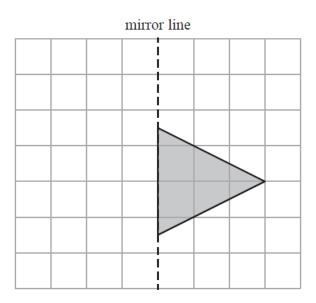
- use this as a guide as to how much time to spend on each question.

Advice

- •Read each question carefully before you start to answer it.
- •Keep an eye on the time.
- •Try to answer every question.
- •Check your answers if you have time at the end.

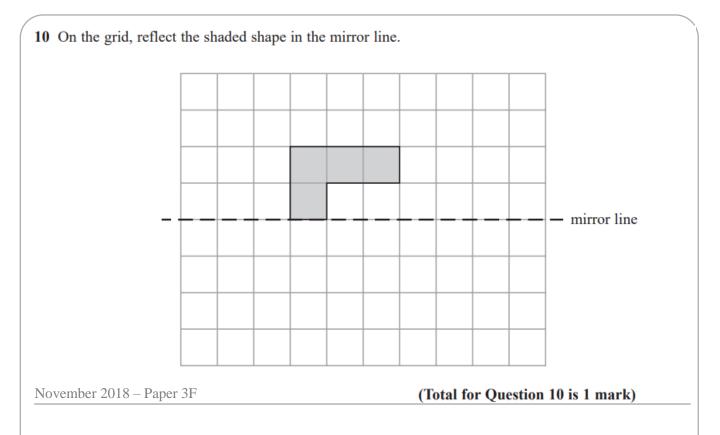
Answer ALL questions Write your answers in the space provided. You must write down all the stages in your working.

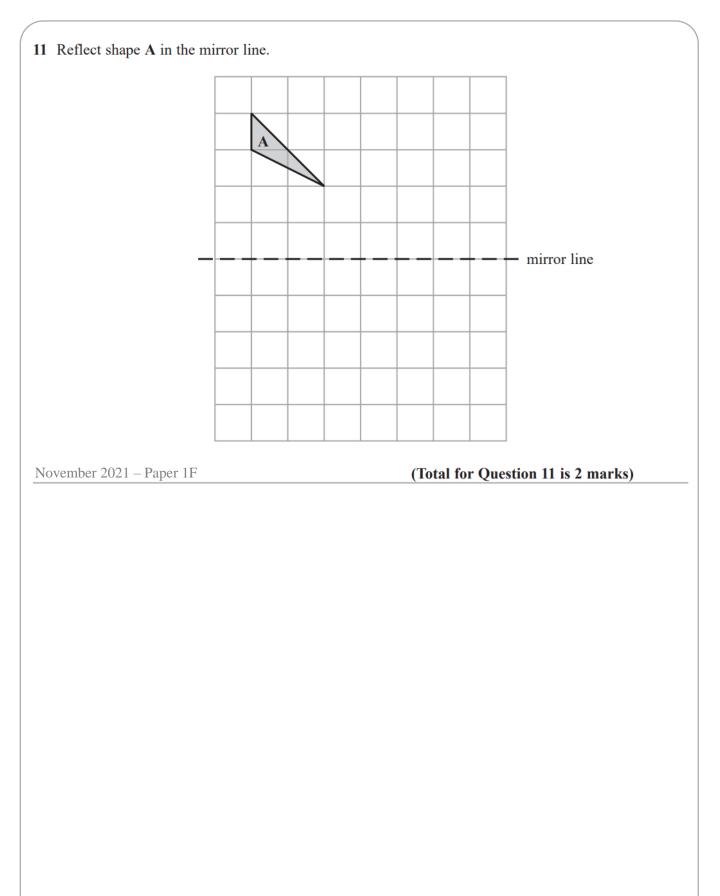
3 On the grid, reflect the shaded triangle in the mirror line.

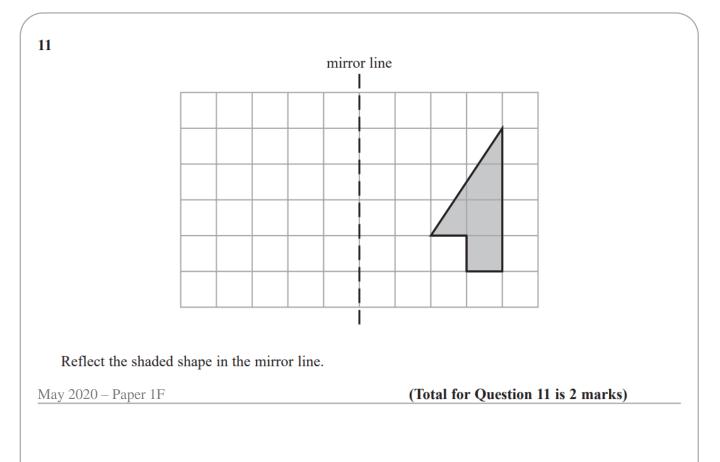


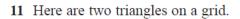
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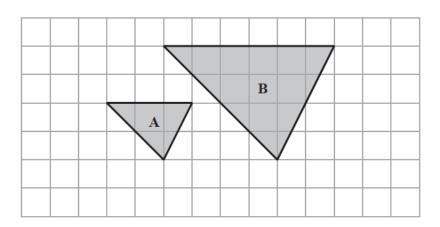
(Total for Question 3 is 1 mark)









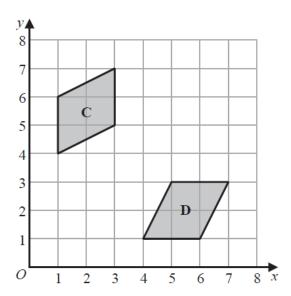


Triangle B is an enlargement of triangle A.

(a) (i) Write down the scale factor of the enlargement.

(ii) On the grid, mark with a cross (\times) the centre of enlargement.

Here are two parallelograms on a coordinate grid.



Parallelogram **D** is a reflection of parallelogram **C**.

(b) (i) On the grid, draw the mirror line.

(ii) Write down an equation of this mirror line.

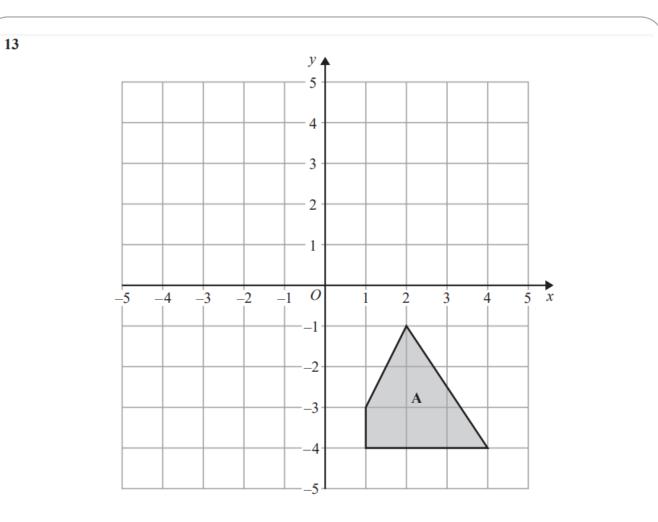
(1)

(1)

(1)

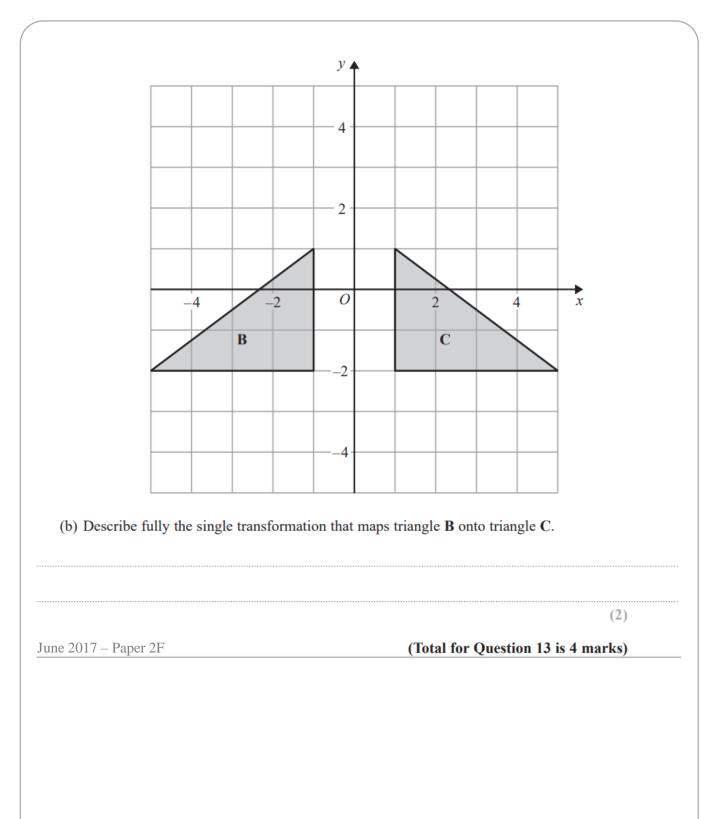
(1)

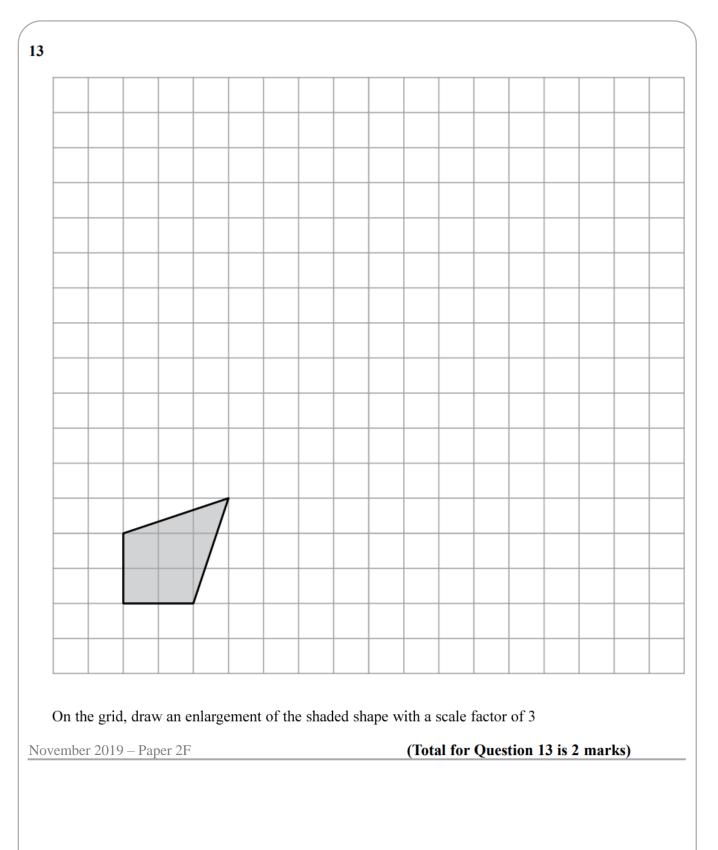
(Total for Question 11 is 4 marks)

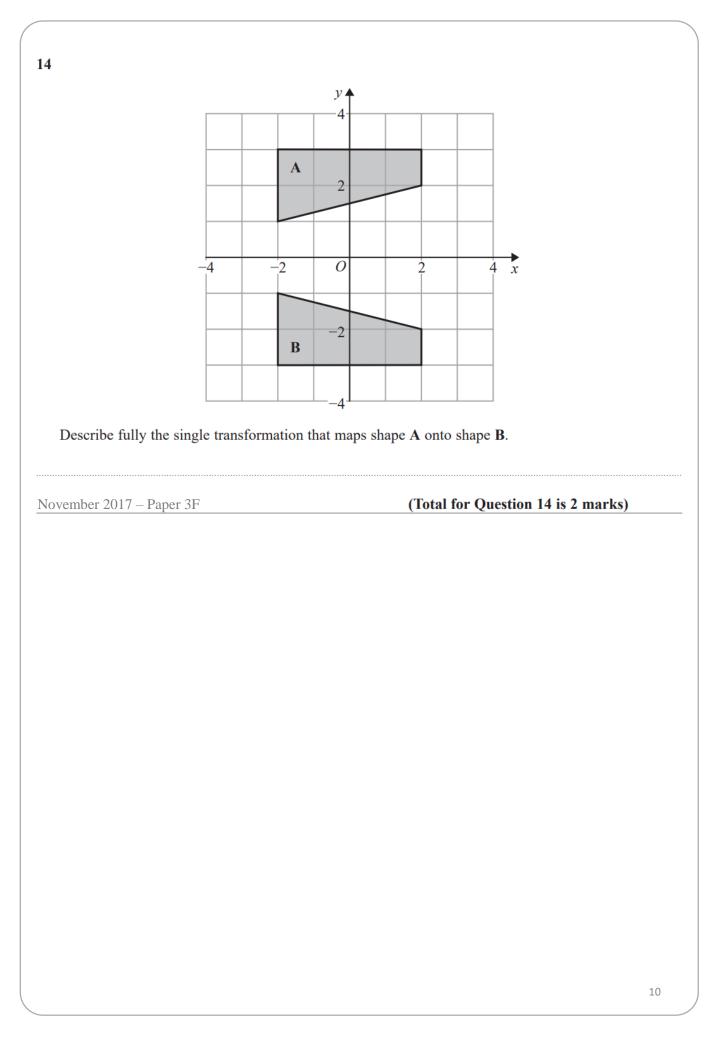


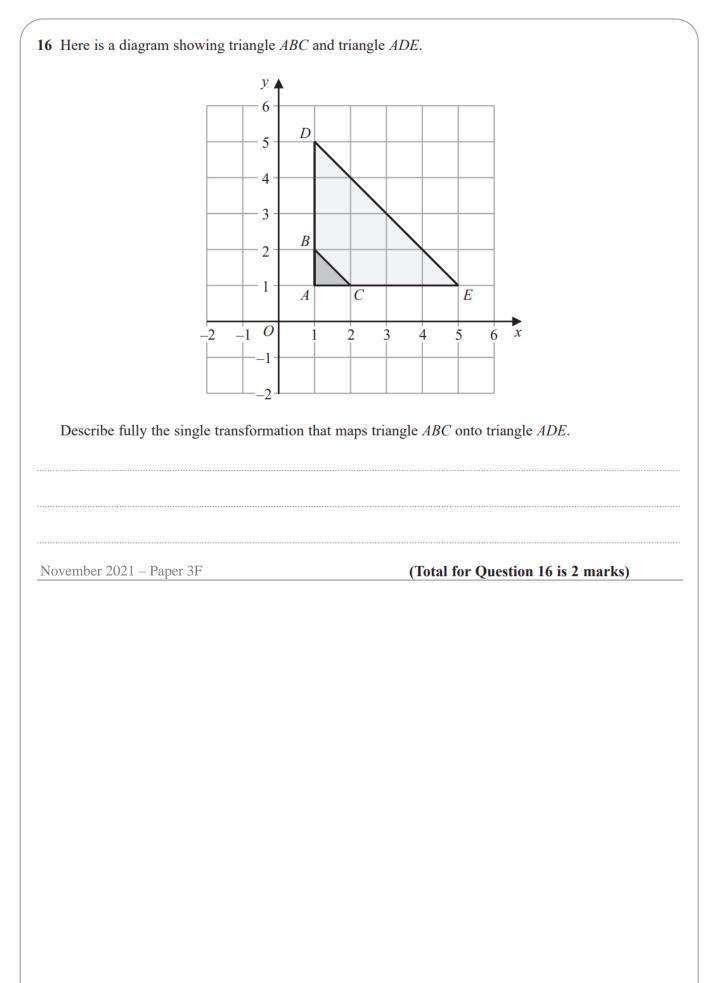
(a) Rotate shape A 90° clockwise about centre O.

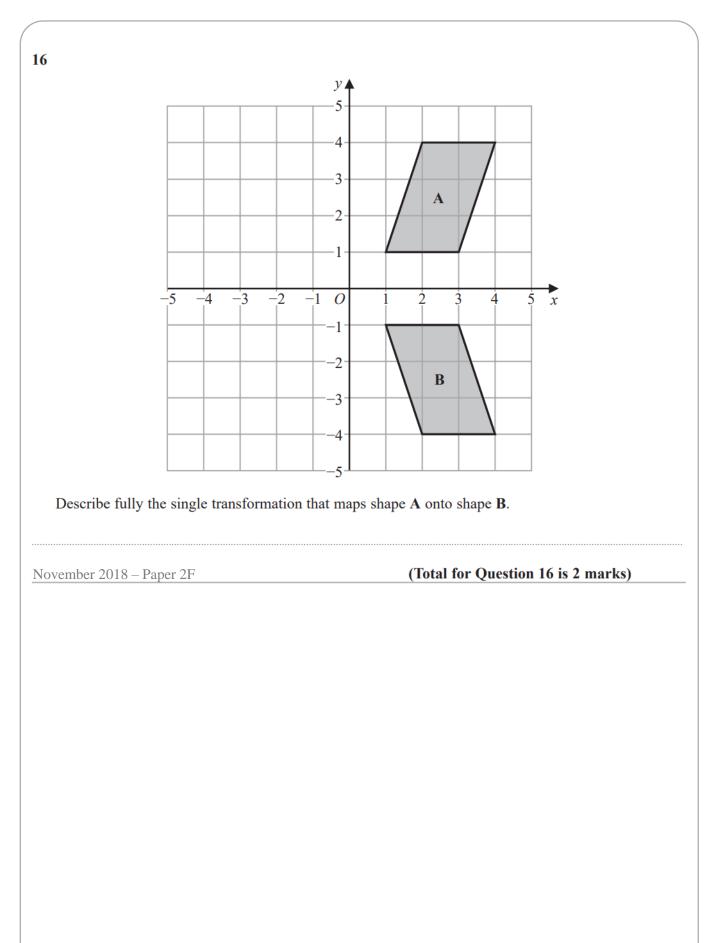
(2)

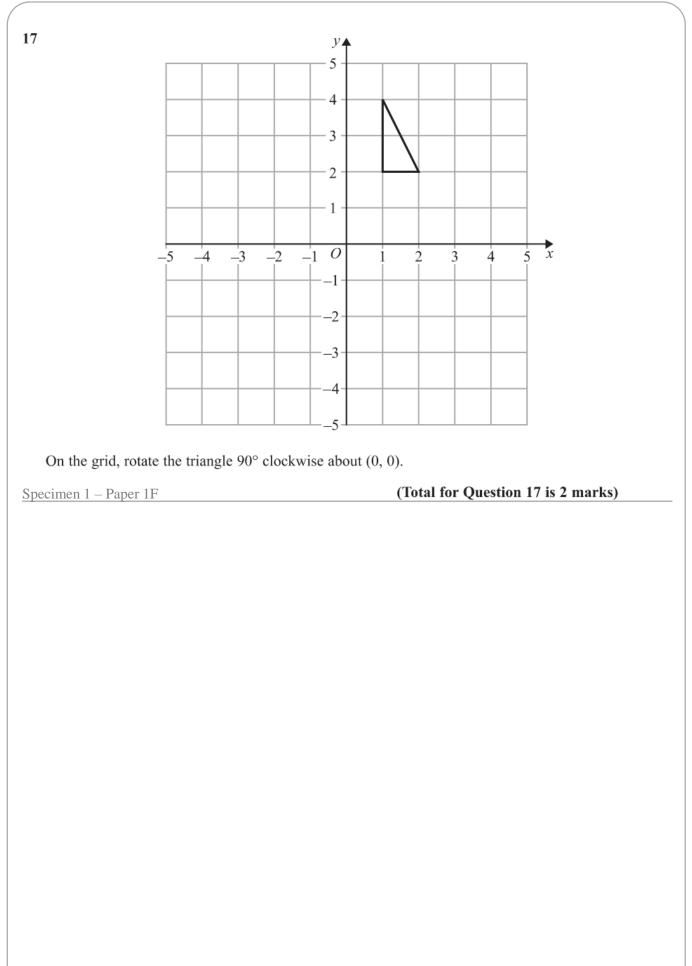


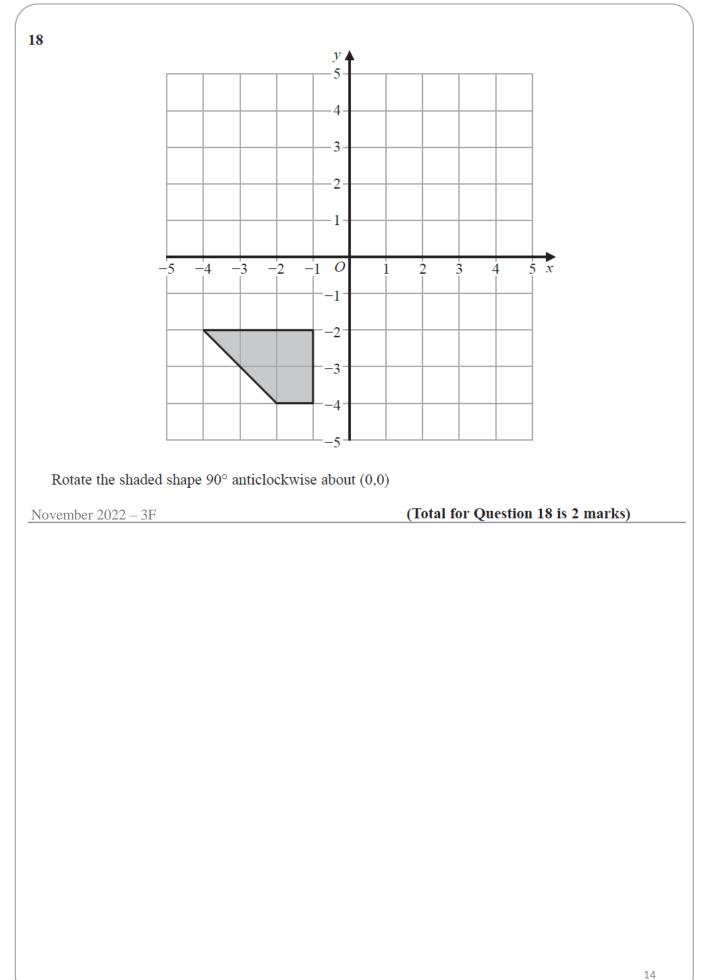


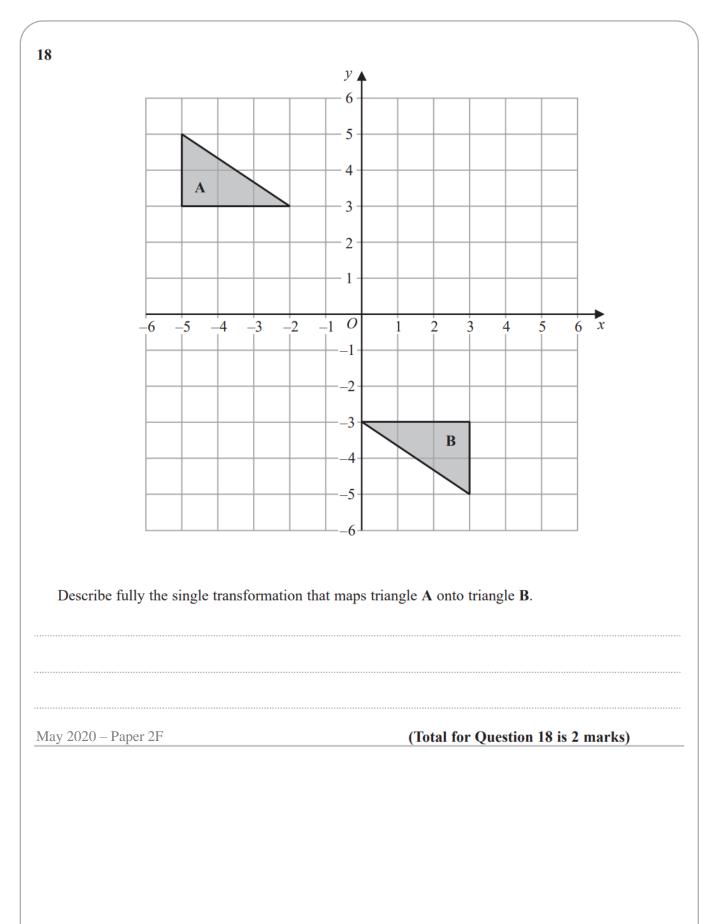


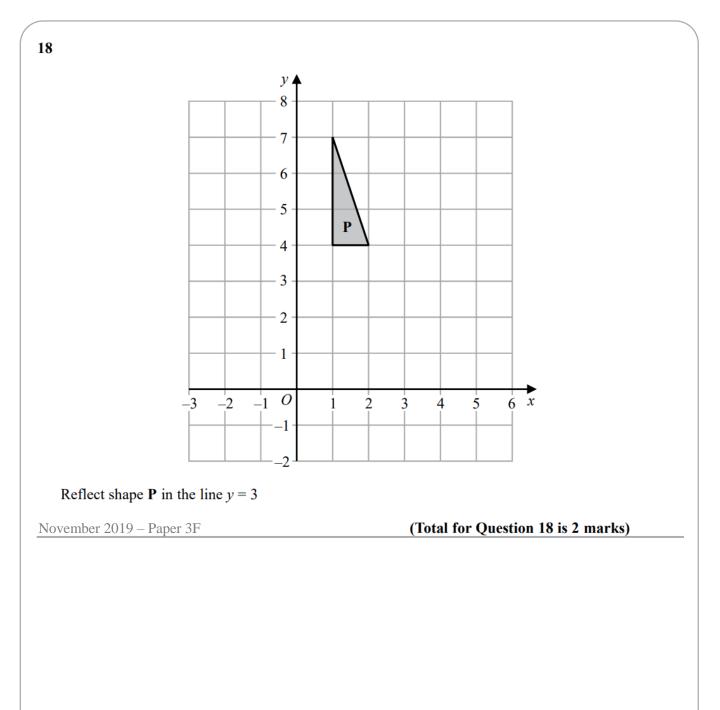


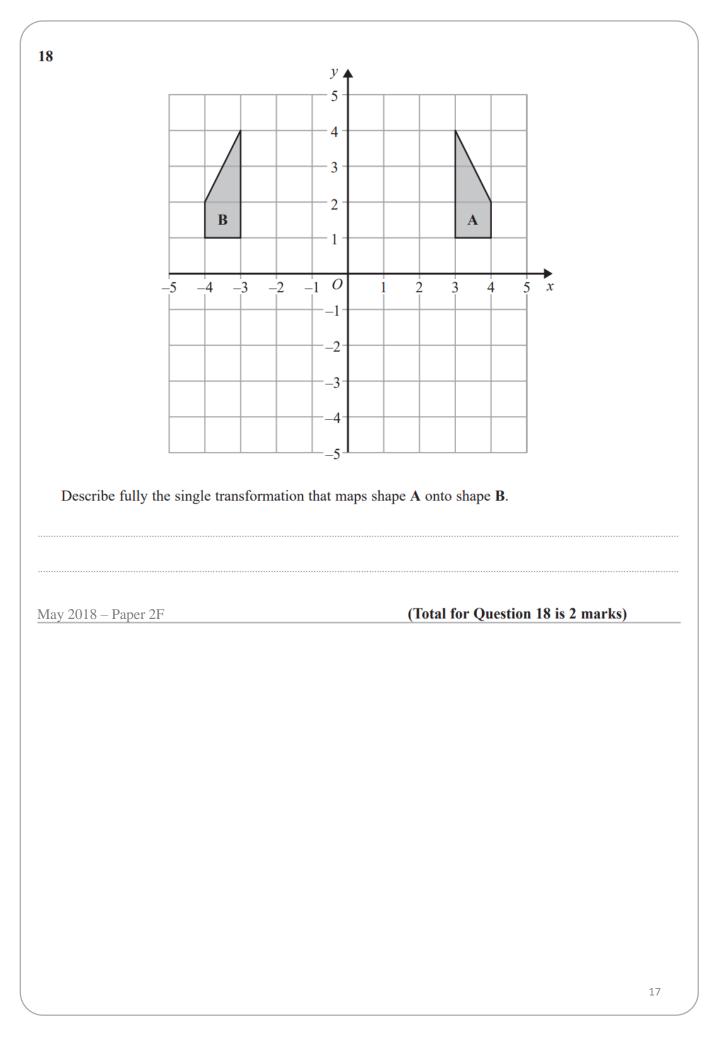


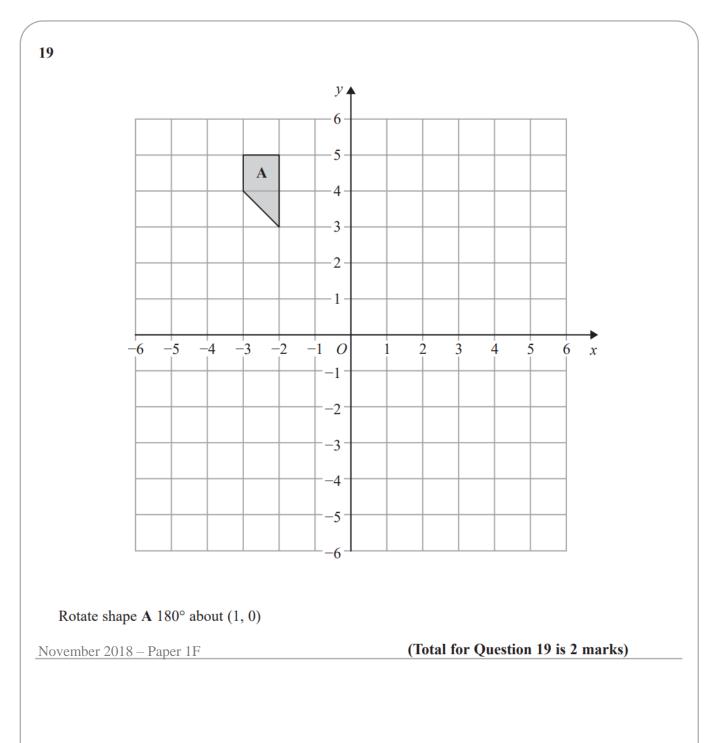


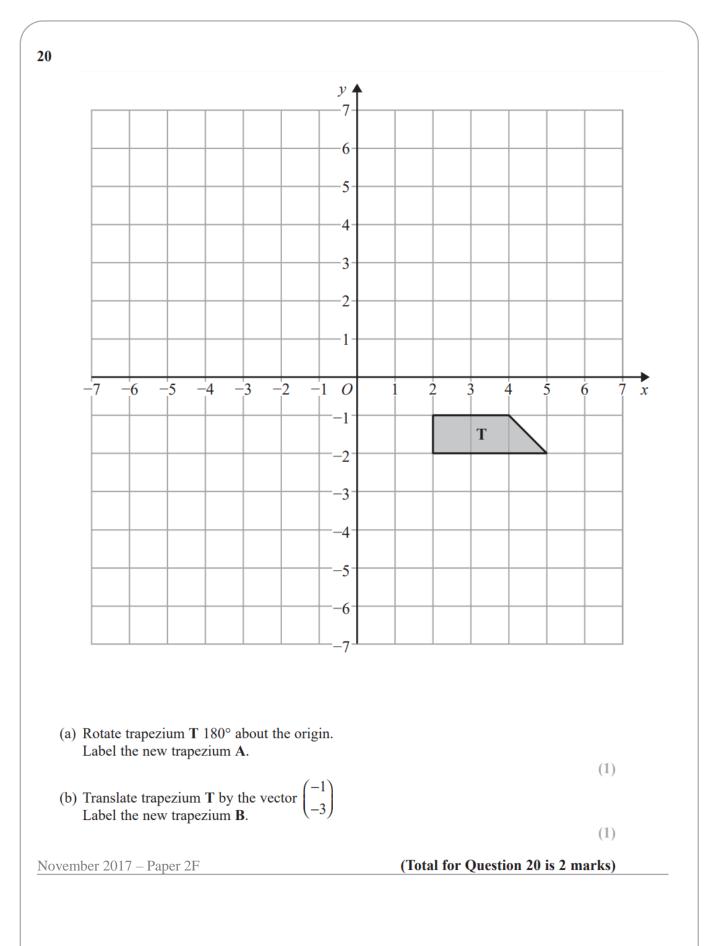


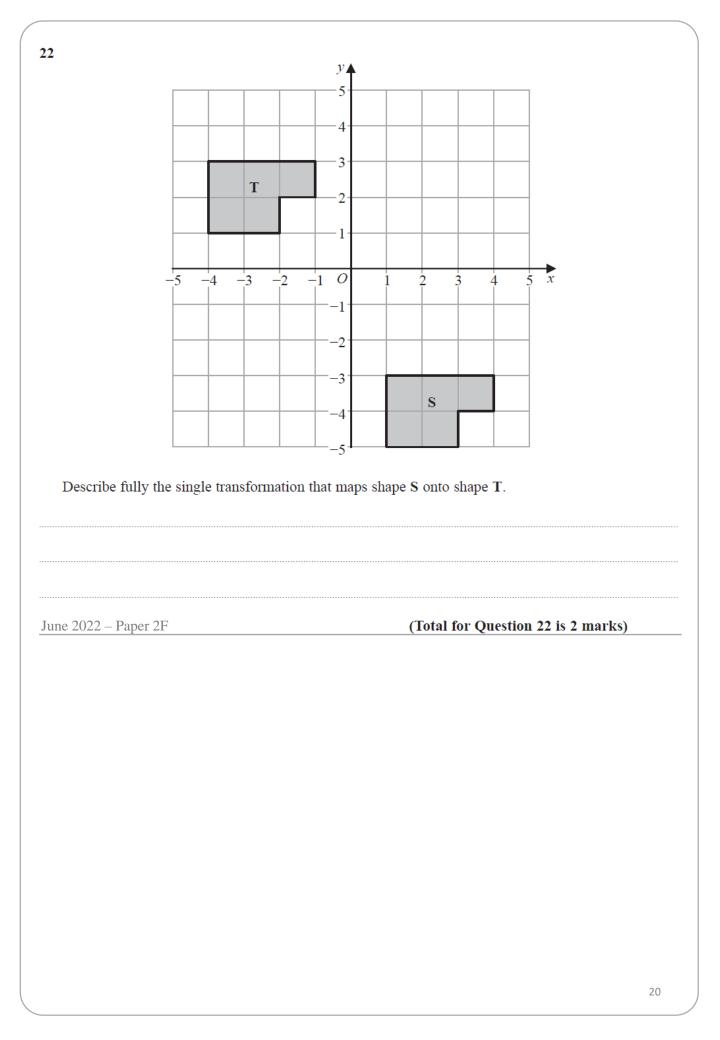


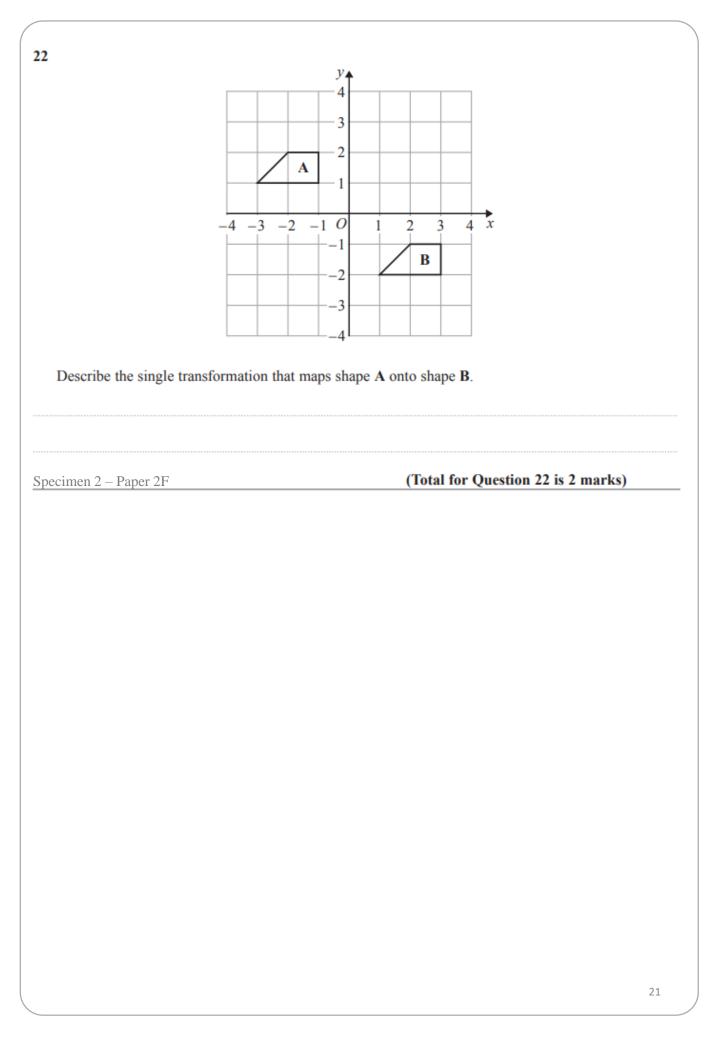


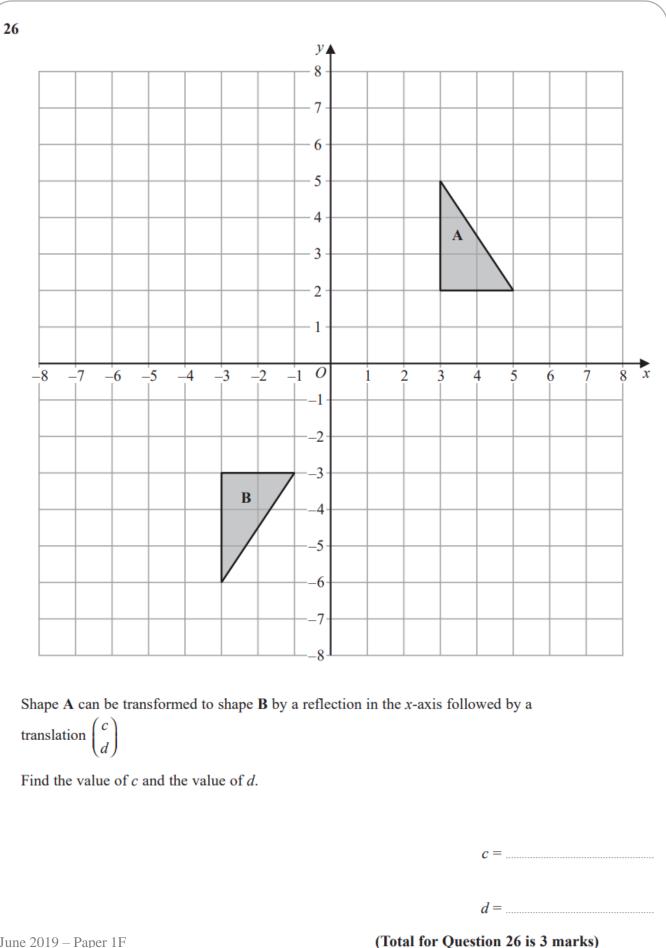












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