

Answer ALL ELEVEN questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 The functions f and g are defined as

$$f(x) = 3^x$$

$$g(x) = \frac{15}{2x-3}$$

- (a) Write down the value of x for which $f(x) = 81$ **(1)**
- (b) Write down the value of x that must be excluded from any domain of g **(1)**
- (c) Find $fg(4)$ **(2)**

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