WORKSHEET

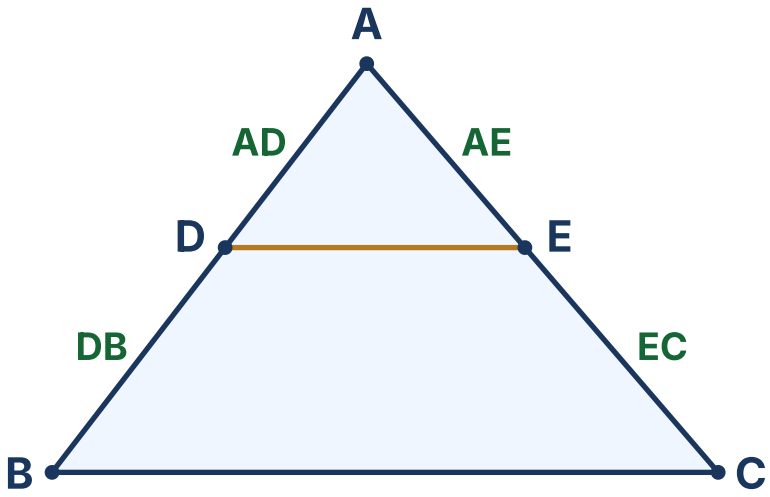
Name: ..... Class: .....

Date: .....

MARK ____ / 20

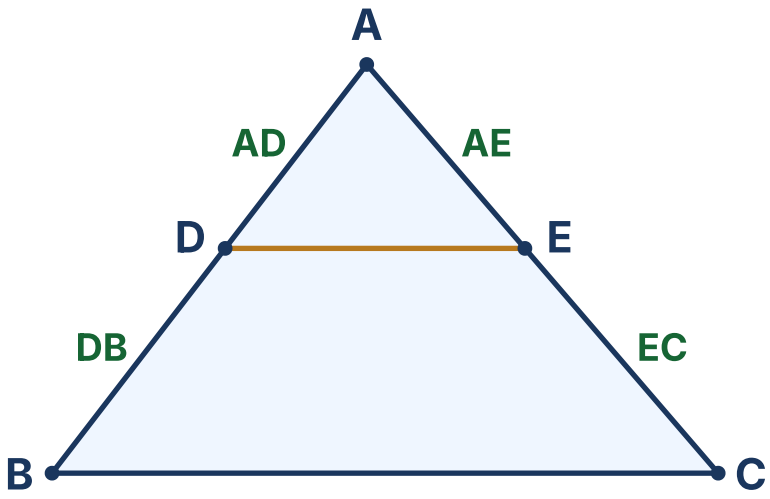
Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

1 In △ABC below, DE ∥ BC. Write down the proportion that follows, with a reason. (2)



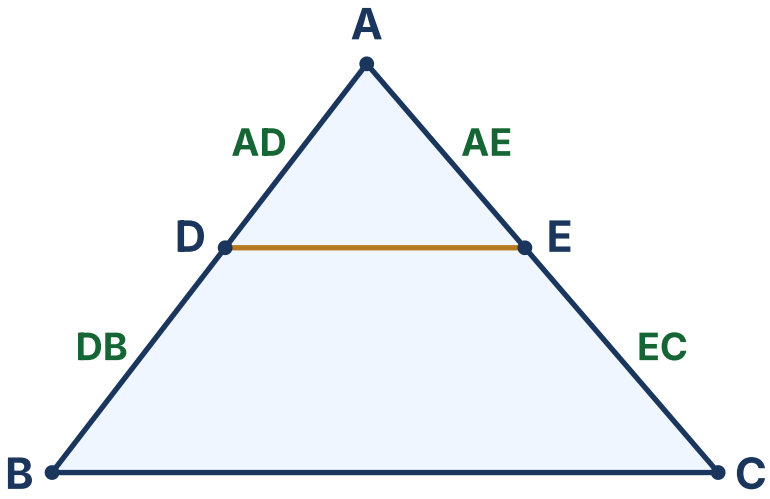
DE ∥ BC

2 DE ∥ BC with AD = 4, DB = 6 and AE = 5. Calculate EC. **(3)**



DE ∥ BC

3 In △ABC below with DE ∥ BC, prove that △ADE ||| △ABC. **(4)**



DE ∥ BC

4 If AD $= 4$ and DB $= 6$, write down the length of AB. (1)

5 How many pairs of equal angles must you prove for AAA? (1)

6 $\triangle ABC \,|||\, \triangle DEF$ with AB $= 8$, DE $= 12$ and BC $= 10$. Calculate EF. (3)

7 State the reason you must quote when using the proportion theorem. (1)

8 Two triangles are equiangular. What can you conclude? (2)

9 The sides of $\triangle ABC$ are 4 cm, 6 cm and 8 cm. The sides of $\triangle KLM$ are 6 cm, 9 cm and 12 cm. Are the triangles similar? Give a reason. (3)

TOTAL: 20 marks

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