1.6 Textile fibres and fabrics: 10-minute Pack

AQA 8552 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions.

1 A maker has an unwashed woven cotton panel 1.25 m long. A test predicts that it will shrink by 4% of its original length during the first wash. Assume the panel shrinks by exactly this percentage. A single unjoined curtain piece must be at least 1.22 m long after washing, including all allowances.

(a) Calculate the length lost and the final panel length. Decide whether it can provide the required curtain piece. **(4)**

(b) Explain why washing suitable fabric before marking out the final curtain pieces can help achieve accurate finished dimensions. **(2)**

(Total for Question 1 is 6 marks)

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Mark scheme · 1.6 Textile fibres and fabrics: 10-minute Pack

Question 1

(a) Uses 4/100 x 1.25, or 1.25 x 0.96 for final length. **M1**

(a) Length lost = 0.05 m; accept 5 cm. **A1**

(a) Final length = 1.20 m; accept 120 cm. **A1**

(a) Concludes it is too short because the final length is below 1.22 m. Follow through a numerical final length for a consistent comparison with 1.22 m. Correct values and comparison without working earn full marks. **B1**

(a) Answer: Length lost = 1.25 x 0.04 = 0.05 m. Final length = 1.25 - 0.05 = 1.20 m. It is 0.02 m too short for the required 1.22 m piece.

(b) Initial shrinkage occurs before final measuring/marking/cutting. **B1**

(b) Links this to reducing the risk that the finished curtain becomes undersized after its first wash. Accept checking dimensions after pre-washing before cutting. **B1**

(b) Answer: Pre-washing allows initial shrinkage to occur before the pieces are measured and cut, reducing later size changes in the assembled curtain.

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