

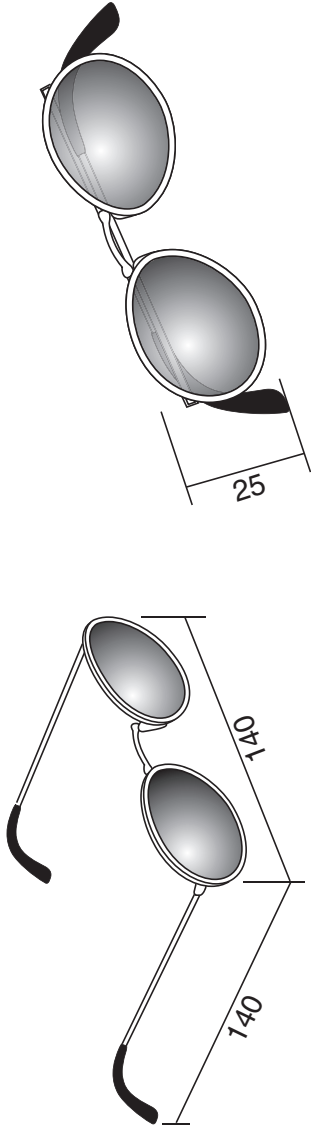
Answer **ONE** question only.

- 1** A design company has carried out market research and found that many people own several pairs of sunglasses.
- A product that will hold several pairs of sunglasses is required.

**Data**

- Market research has indicated that there is a potential demand for 10,000 products.
- Sizes of a typical pair of sunglasses are shown in Fig. 1.

Theme: Storage of personal accessories.  
Focus Materials: Resistant Materials/Textiles/Graphic Products.



**Fig. 1**

**ALLOCATION OF MARKS FOR PAPER 2524/02**

- |   |                     |
|---|---------------------|
| <b>(a)</b> specification points.                | <b>[16]</b>         |
| <b>(b)</b> initial ideas.                       | <b>[38]</b>         |
| <b>(c)</b> features suitable for development.   | <b>[8]</b>          |
| <b>(d)</b> communication skills and techniques. | <b>[10]</b>         |
|   | <b>[Total : 72]</b> |

All dimensions are in mm.

Where necessary, calculators may be used.

2 People are becoming more aware of the potential to use appropriate food waste as compost for gardens.

A product that will allow the householder to store appropriate food waste before composting is required.

Data

- Market research has indicated that there is a potential demand for 50,000 products.

Theme: Composting.  
Focus Materials: Resistant Materials/Graphic Products.

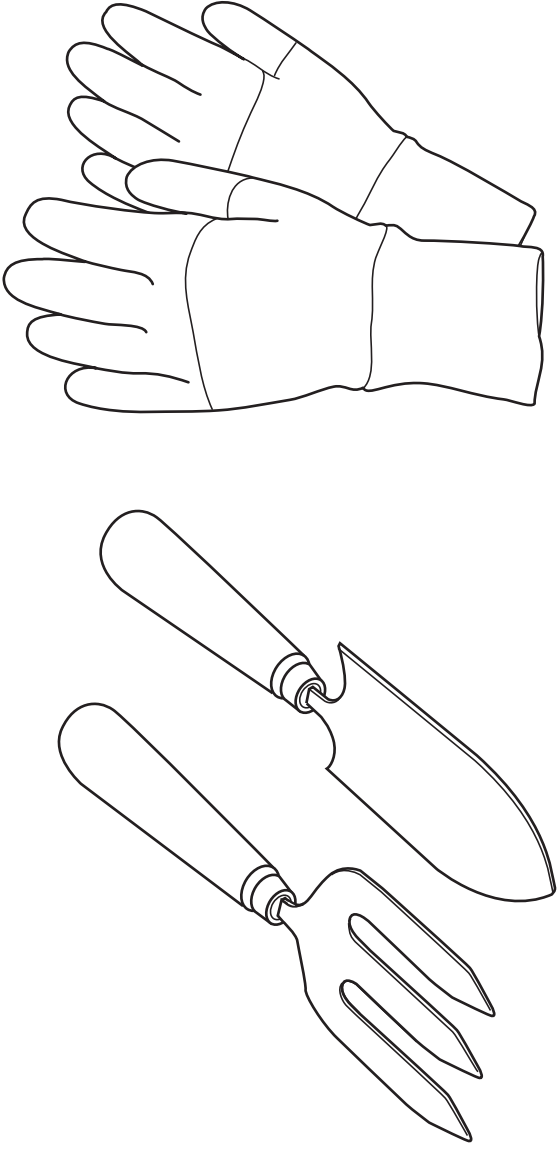
3 A garden centre has carried out market research and found that many people find kneeling when gardening uncomfortable.

A dual-purpose kneeling aid/storage unit for gardeners is required.

Data

- Market research has indicated that there is a potential demand for 1,000 products.
- Sizes of small gardening equipment are shown in Fig. 2.

Theme: Gardening.  
Focus Materials: Resistant Materials/Textiles.



	length	width	thickness
Fork	200	80	30
Trowel	200	90	25
Gloves	180	100	20
Other gardening equipment may need to be included and catered for in the specification.			

Fig. 2

- 4 A toy manufacturer is planning to launch a new product that will encourage young children to go to bed.
- A new bedtime product for young children is required.

Data

- Market research has indicated that there is a potential demand for 5,000 products.

Theme: Time for bed.  
Focus Materials: Resistant Materials/Textiles/Graphic Products.

- 5 A large airline company has decided to introduce a new range of 'snack pack' meals. The pack will include a sandwich, drink carton and a cereal bar.
- A product that will contain the 'snack pack' meal is required.

Data

- Market research has indicated that there is a potential demand for 50,000 products.
- Sizes of sandwich/drink carton/cereal bar are shown in Fig. 3.

Theme: Food containers.  
Focus Materials: Resistant Materials/Graphic Products.

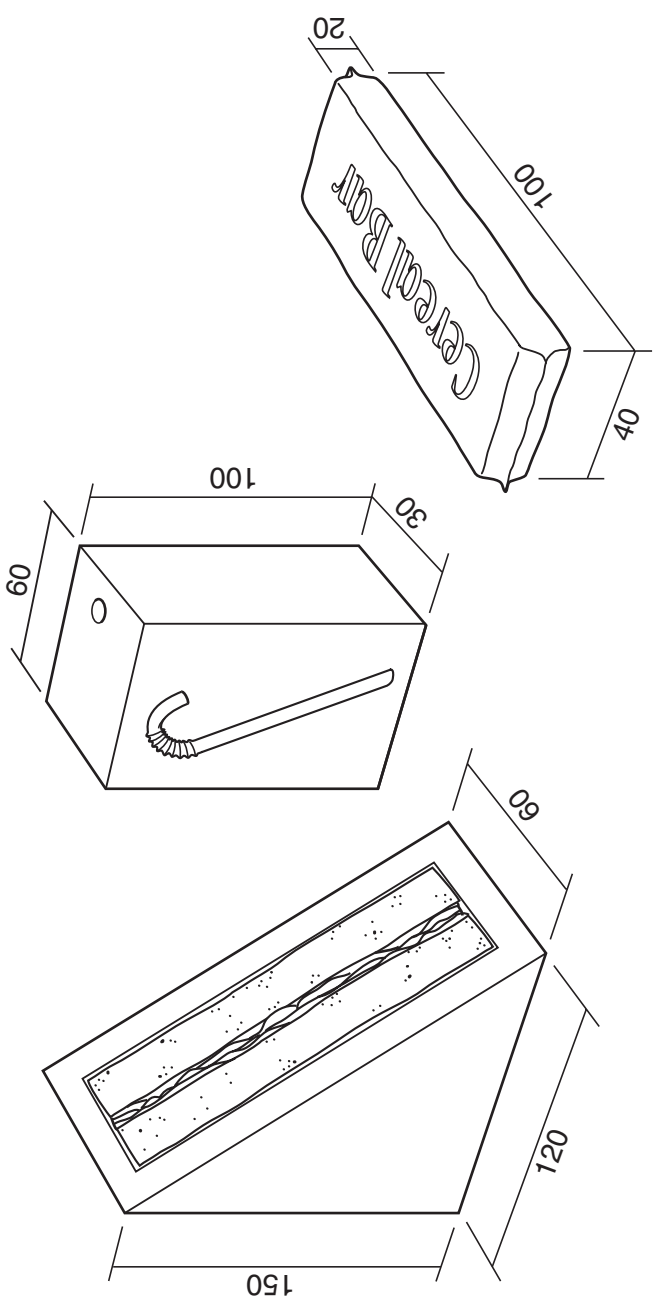


Fig. 3

**DO NOT USE THIS SIDE**

<div><div>FOR CANDIDATE USE ONLY</div><div><div>Circle the question number you are answering</div><div>12345</div></div></div>		<div><div>(a) A list of <b>eight</b> qualified specification points, directly related to the given situation, that initial ideas should meet. [16]</div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div></div></div>		<div><div>A3 SHEET 1 OF 4</div><div><div>DO NOT WRITE IN THIS SPACE</div><div>DO NOT WRITE IN THIS SPACE</div></div><div><div>FOR EXAMINER'S USE ONLY</div><div>SP</div></div></div>			
<div><div>2524/02 PRODUCT DESIGN 2525/02 SYSTEMS AND CONTROL</div></div>		<div><div>CANDIDATE NAME</div></div>		<div><div>CANDIDATE NUMBER</div></div>		<div><div>CENTRE NUMBER</div></div>	

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**(b) Initial ideas:**

- Range of ideas. [10]
- Design ideas relating to the functional aspects raised in your specification. [5]
- Quality of design thinking relating to the volume production and wider market issues. [5]
- Consideration of construction. [5]
- Consideration of specific materials and components (may include calculations.) [5]
- Consideration of dimensional detail (may include calculations). [3]
- Evaluation of the suitability of the ideas with reference to the Specification. [5]

**[Total : 38]**

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A3 SHEET 4 OF 4

(c) Features suitable for development.

• Appropriate features identified and clearly described.

• Appropriate justification of the features identified with reference to the Specification.

[4]

[4]

[Total : 8]

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CS

2524/02  
2525/02

PRODUCT DESIGN  
SYSTEMS AND CONTROL

CANDIDATE NAME

CANDIDATE NUMBER

CENTRE NUMBER