

STAPLE HERE

FOR OFFICIAL USE

--	--	--	--	--	--

## X033/701

NATIONAL  
QUALIFICATIONS  
2010

THURSDAY, 27 MAY  
9.00 AM – 12.00 NOON

GRAPHIC  
COMMUNICATION  
ADVANCED HIGHER

Fill in these boxes and read what is printed below.

Full name of centre

Town

Forename(s)

Surname

Date of birth

Day Month Year

--	--	--	--	--	--	--	--	--	--

Scottish candidate number

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Number of seat

**80 marks are allocated to this paper.**

- 1 Answer **all** questions.
- 2 Read each question carefully before you answer.
- 3 Written answers may be in **ink** or **pencil**.
- 4 Drawings and sketches **must be in pencil**.
- 5 Coloured pencils may be used when sketching.
- 6 Dimensions are given in millimetres or as stated.
- 7 Orthographic drawings are in third angle projection.
- 8 The leaflet for Question 1 has been supplied separately. Please ensure that you have this leaflet.
- 9 **At the end of the examination**
  - check that your name is on every sheet;
  - put the sheets in correct numerical order;
  - place this sheet on top of the others;
  - join all sheets together by **stapling** at the top left-hand corner;
  - before leaving the examination room, you must give these sheets to the invigilator (if you do not you may lose all the marks for this paper).

Marks Grid

Question	Marks
1	
2	
3	
4	
5	
6	
7	
8	
9	
Total Marks	



1

Please refer to the Leaflet for use with Question 1.

Design Elements and Design Principles should be considered when producing a page layout. With reference to the Leaflet for use with **Question 1**, select **two Design Elements** and **two Design Principles**. Identify and describe how each contributes and makes an impact for the given page.

Design Element 1 .....

Description:

Design Element 2 .....

Description:

Design Principle 1 .....

Description:

Design Principle 2 .....

Description:

2

A page layout is shown below.

In the space provided, name the Desktop publishing features identified (A to F).

A ..... B ..... C .....  
 D ..... E ..... F .....

Total (8)

Total (6)

3

Describe the printing process terms below.

Marks

(a) (i) **Spot Colour**

1

(ii) **CMYK**

1

(iii) **Camera-ready copy**

1

(b) Explain the purpose of **registration marks** during a printing process.

2

Total (5)

4

When handling graphics, Vector and Bitmap images are used.

(a) Describe, with the aid of sketches, the difference between a Vector and a Bitmap image.

2

(b) Explain **two** advantages a Vector image has in comparison to a Bitmap image.

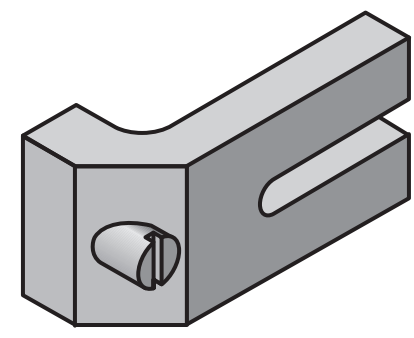
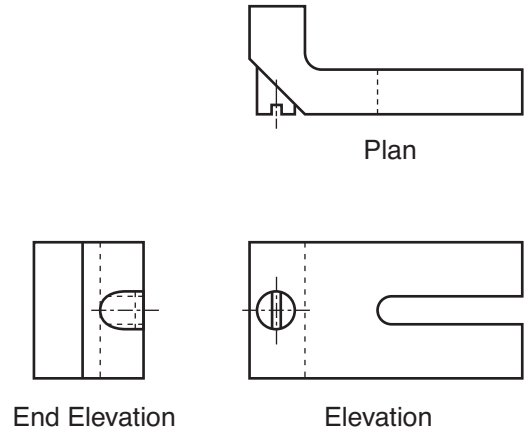
2

Total (4)

5

Orthographic views of a drawing board bracket are given.  
With the aid of sketches, explain how a 3D solid model of the bracket can be produced.

Marks



6

In computer-aided 3D modelling, lights are used to enhance a rendered image.

Marks

(a) Describe the effects on a 3D CAD model of the following lighting types.

(i) **Distant**

(ii) **Spot**

(iii) **Point**

3

(b) The following terms are associated with lighting. Explain these terms.

(i) **Ambient**

(ii) **Intensity**

Total (5)

Total (5)

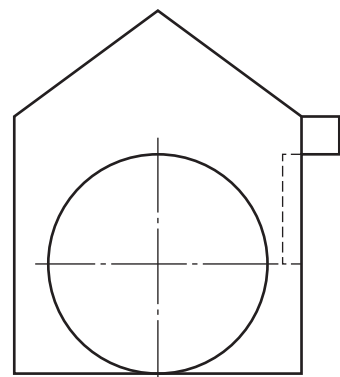
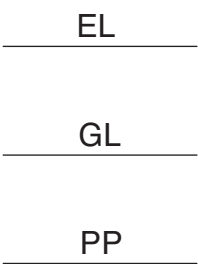
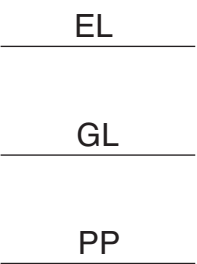
The plan view, elevation and end elevation of a watermill are given below.

Draw a measured perspective view of the watermill.

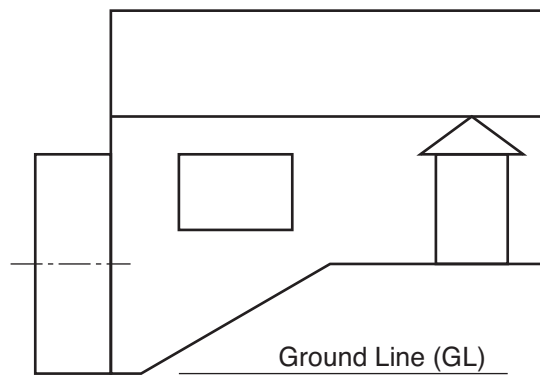
The spectator point (SP), picture plane (PP), ground line (GL) and eye level (EL) are all given.

Do not show hidden detail.

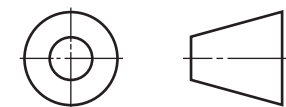
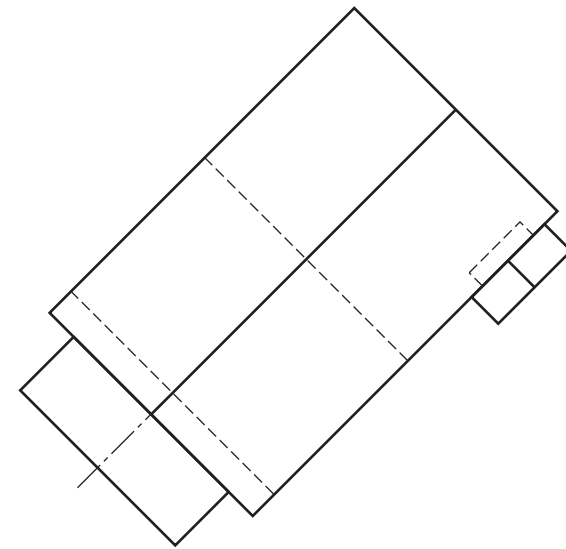
(16 marks)



End Elevation



Elevation

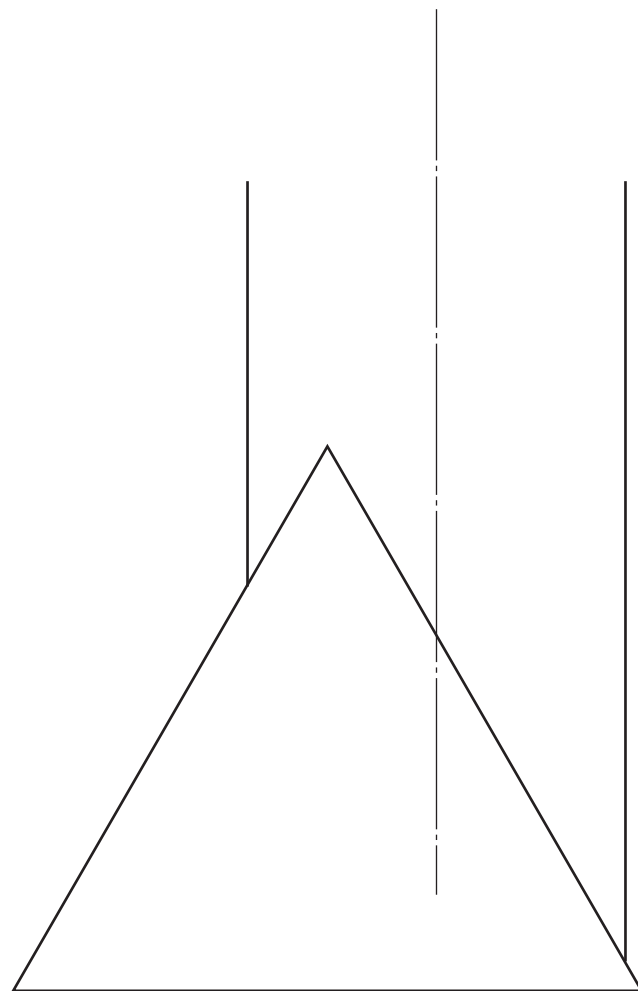
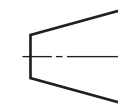
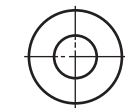


<i>a</i>	
<i>b</i>	
<i>c</i>	
<i>d</i>	
<i>e</i>	
<i>f</i>	
<i>g</i>	
<i>h</i>	
<i>i</i>	
<i>j</i>	
<i>k</i>	
<i>l</i>	
<i>m</i>	
<i>n</i>	

The incomplete end elevation and elevation of a triangular and cylindrical pipe is given.

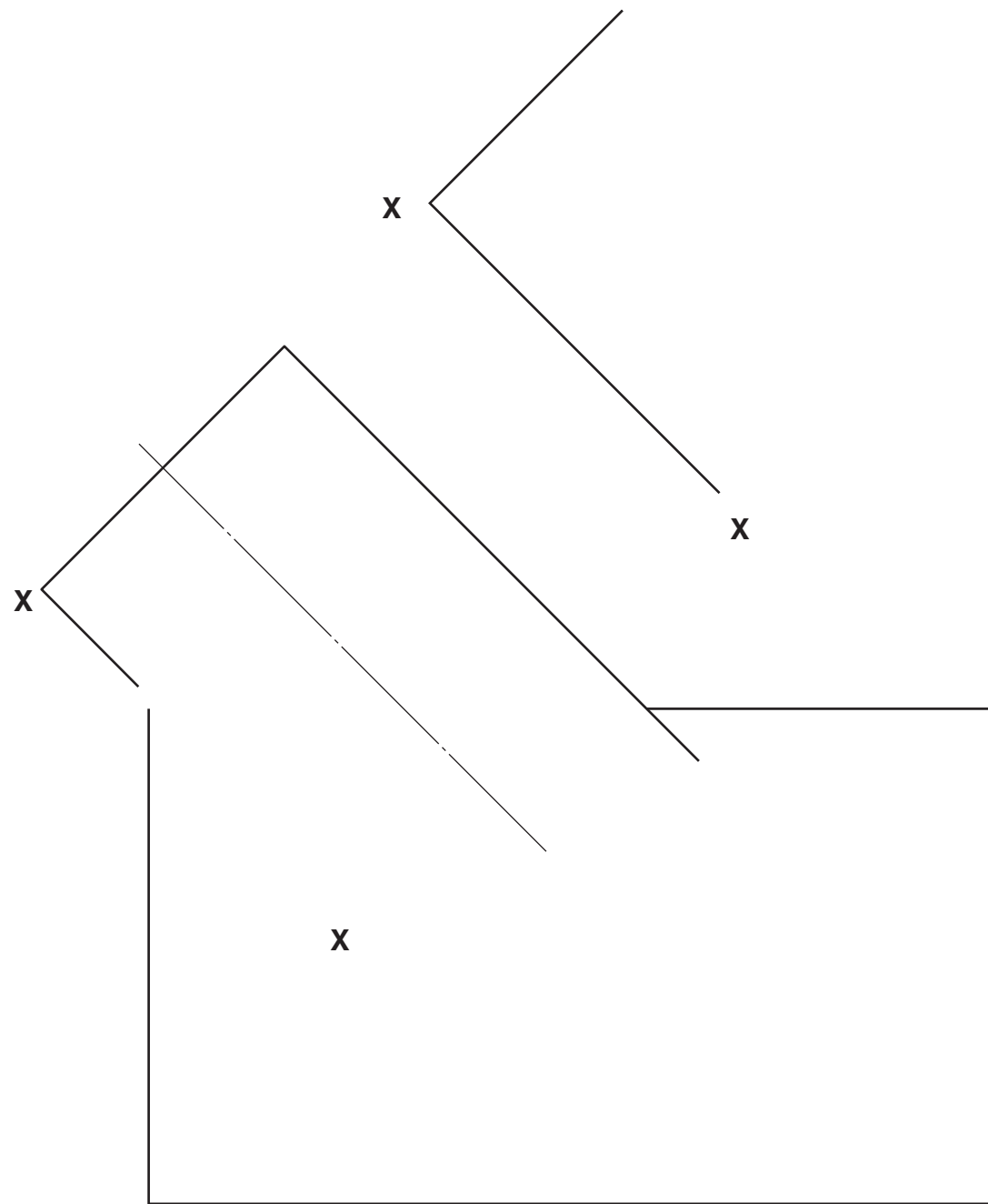
**Draw**, from the given views:

- (a) the complete end elevation;
- (b) the complete elevation;
- (c) a surface development of the cylindrical pipe starting at position **XX**. **(16 marks)**



END ELEVATION

[X033/701]



ELEVATION

SURFACE DEVELOPMENT

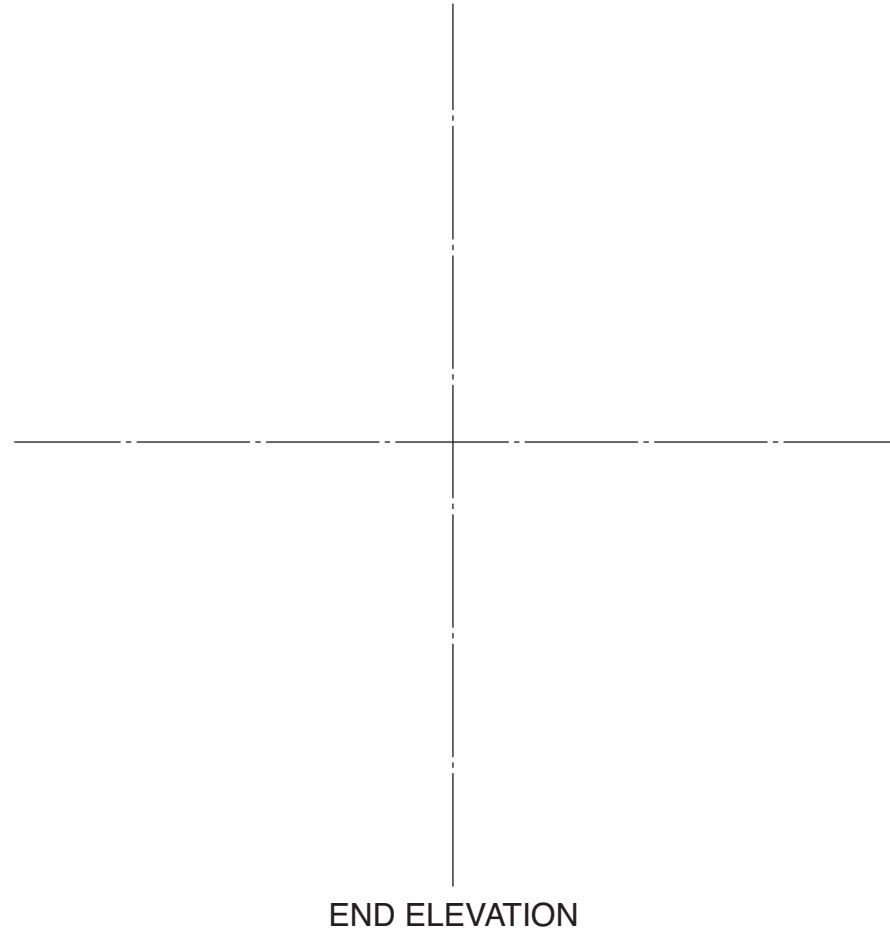
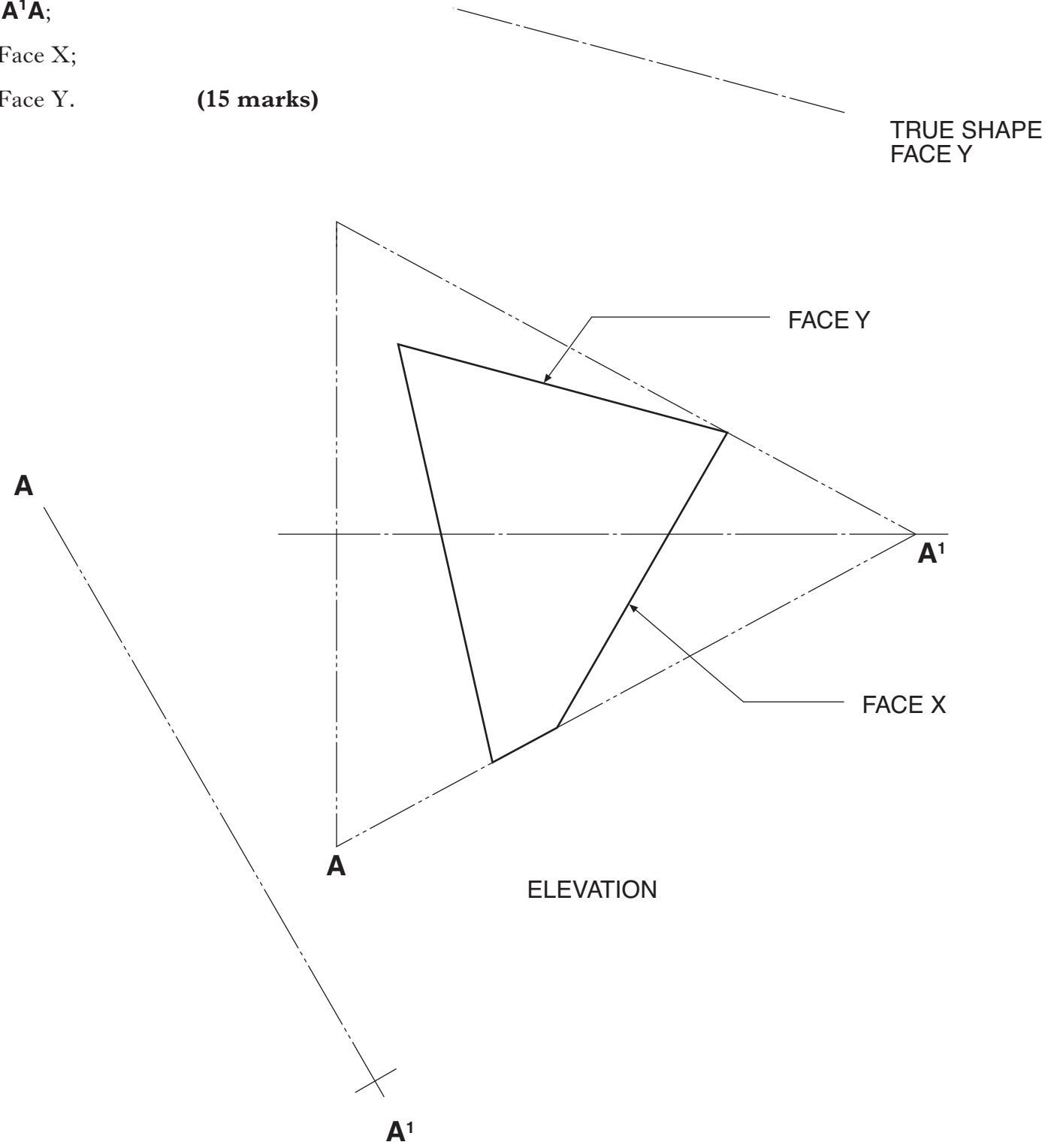
<i>a</i>	
<i>b</i>	
<i>c</i>	
<i>d</i>	
<i>e</i>	
<i>f</i>	
<i>g</i>	
<i>h</i>	
<i>i</i>	
<i>j</i>	
<i>k</i>	
<i>l</i>	
<i>m</i>	
<i>n</i>	

Candidate's Name \_\_\_\_\_

The elevation of a right cone is given.

Draw, in the position shown:

- (a) the end elevation;
  - (b) a symmetrical half surface development of the cone starting at **A<sup>1</sup>A**;
  - (c) a true shape of Face X;
  - (d) a true shape of Face Y.
- (15 marks)



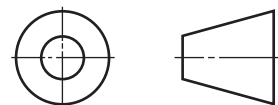
SURFACE DEVELOPMENT

END ELEVATION

TRUE SHAPE  
FACE Y

TRUE SHAPE  
FACE X

<i>a</i>	
<i>b</i>	
<i>c</i>	
<i>d</i>	
<i>e</i>	
<i>f</i>	
<i>g</i>	
<i>h</i>	
<i>i</i>	
<i>j</i>	
<i>k</i>	
<i>l</i>	
<i>m</i>	
<i>n</i>	



## ACKNOWLEDGEMENTS

Section A Question 2 —Full page spread is taken from Page 77 of *Daily Express Saturday Magazine*. Permission is being sought from Daily Express.

Leaflet for use with Question 1—Full double page spread is taken from Pages 8 and 9 of the leaflet, *ASDA Let's Meat Up*. Reproduced by kind permission of ASDA.



## **X033/702**

---

NATIONAL  
QUALIFICATIONS  
2010

THURSDAY, 27 MAY  
9.00 AM – 12.00 NOON

GRAPHIC  
COMMUNICATION  
ADVANCED HIGHER  
Leaflet for use with  
Question 1







# Come outside

The sun's shining, there's not a cloud in the sky... grab that picnic hamper and go!

**The best** picnic food is simple, fuss-free and totally delicious. And that's just what you'll find at Asda, from tasty cooked meats and handy dipper snack packs to ready-cooked chicken wings and drumsticks that you can enjoy cold or sizzle up on the barbie. There's all you need for a fun feast in the sun.

## KEEP IT COOL

- Put frozen gel packs in your coolbag to keep food cold. Or you can freeze individual drink cartons to create space-saving ice packs.
- If you're driving, keep the coolbag in the passenger area of your car, rather than in a stuffy boot.
- When you've served out, pop leftover food back in the coolbag straightaway, until you're ready for seconds.
- Keep the coolbag in the shade while you picnic.

Photographs: Joff Lee. Pack shots: Martin Thompson. Food styling: Mari Williams



## Roll up, roll up!

Picnic in style with a platter of mouthwatering cold meats, including honey roast ham, best topside of beef and chargrilled style chicken.

**Asda Honey Roast Dry Cure Ham**, £1.48 (150g; 99p/100g; chiller)

**Asda Chargrilled Style Chicken**, £1.48 (150g; 99p/100g; chiller)

**3 for £4**

**Asda Roast Pork Loin**, £1.48 (150g; 99p/100g; chiller)  
**Asda Wafer Thin Topside of Beef**, £1.48 (100g; £1.48/100g; chiller)

## Fancy a dip?

A must for kids' lunchboxes, these mini sausages and tender chicken chunks come with their own yummy dips. With the sausages you can choose from a BBQ, Spicy or Tangy dip, while the Kofta Bites have a minty raita dip. The Tikka and Mexican style chunks come with a tangy sauce and crunch dip duo for a new taste sensation.



**Asda Snackin' 8 BBQ/Spicy Dippers**, 98p (105g; 93.3p/100g; chiller)

**2 for £1.50**

**Asda Snackin' Mini Chicken Kofta Bites**, 98p (85g; £1.15/100g; chiller)

**2 for £1.50**

**Asda Snackin' Mexican Style Dip 'n' Crunch**, £1.48 (115g; £1.28/100g; chiller)

## Drum up a feast

Pop some spicy tikka or Chinese style drumsticks on the barbie for an instant sizzling treat.

**Asda Ready To Eat Chinese Style/Tikka Chicken Drumsticks**, £2.88 (603g; 47.8p/100g; chiller)

**2 for £5**

## Snack attack

Make sure you've got a pack of this classic dry cure ham in your hamper – the wafer-thin slices are perfect for sandwiches and salads. And don't leave home without some succulent satay sticks – made from 100 per cent chicken, they come with either a Tomato or Sweet Curry dip.



**Asda Wafer Thin Dry Cure Oven Baked Ham**, £1.48 (150g; 99p/100g; chiller)

**Asda Satay Snacks + Dip**, 98p (90g; £1.08/100g; chiller)

**2 for £1.50**

## Perfect for PICNICS

Picnic fare doesn't get much better than these lightly spiced chicken wings – one just won't be enough



## So simple

**Pick-me-up chicken**  
 Bring a disposable BBQ on your picnic so that you can enjoy piping hot, spicy chicken wings. No need to season, marinade or wait for them to cook. Just give them a sizzle until they're hot all the way through and get stuck in.

**Asda Ready To Eat Chinese Style Chicken Wings**, £2.88 (702g; 41p/100g; chiller)

**Asda Ready To Eat Hot & Spicy Chicken Wings**, £2.88 (702g; 41p/100g; chiller)



**2 for £5**