higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE

INTRODUCTORY PATTERN CONSTRUCTION N4

(10010454)

29 September 2020 (X-paper)
09:00–12:00

REQUIREMENTS: A4 drawing paper

Calculators may be used.

Candidates need drawing instruments.

This question paper consists of 10 pages and 3 addenda.

122Q1B2029

Copyright reserved

DEPARTMENT OF HIGHER EDUCATION AND TRAINING
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE
INTRODUCTORY PATTERN CONSTRUCTION N4
TIME: 3 HOURS
MARKS: 200

INSTRUCTIONS AND INFORMATION

1. Answer all the questions.
2. Read all the questions carefully.
3. Number the answers according to the numbering system used in this question paper.
4. Start each question on a new page.
5. Write neatly and legibly.

Copyright reserved

SECTION A

QUESTION 1

1.1 Various options are given as possible answers to the following questions. Choose the answer and write only the letter (A–D) next to the question number (1.1.1–1.1.10) in the ANSWER BOOK.

1.1.1 Front and back … are marked on basic bodice blocks at the arm scye so that necessary measurements can be taken.

A squaring
B divide
C pitches
D notches

1.1.2 The most protruding part of the actual bust:

A Bust prominence
B Pivot
C Waist suppression
D Dart

1.1.3 Found at the shoulder of the basic front bodice, and the waist of the basic skirt block:

A Pitches
B Facing
C Flat pattern drafting
D Control dart

1.1.4 To draw lines at an angle of 90°:

A Parallel
B Square
C Pivot
D Divide

1.1.5 To draw a line, vertically or diagonally, the same distance of the first line:

A Midway
B Bisect
C Parallel
D Pivot

Copyright reserved

1.1.6 To divide the 90° angle into two 45° angles:

A Divide
B Pivot
C Bisect
D Square

1.1.7 Exactly halfway between two known points:

A Parallel
B Midway
C Angle
D Degrees

1.1.8 Swinging an arc from a certain fixed point:

A Squaring
B Measuring
C Bisecting
D Pivoting

1.1.9 The even distribution of fullness without forming gathers:

A Ease
B Spread
C Dart point
D Spots

1.1.10 Transferring pattern markings on a piece of transparent paper:

A Trace
B Wedge
C Use arrows
D Flare

(10 × 1) (10)

1.2 Choose an item from COLUMN B that matches a description in COLUMN A. Write only the letter (A–L) next to the question number (1.2.1–1.2.10) in the ANSWER BOOK.

COLUMN A		COLUMN B	
1.2.1	Used for drawing lines at various angles	A	ruler
		B	French curve
1.2.2	Metal ruler with two arms that form a 90° angle and a scale on back side	C	awl
1.2.3	Used for constructing basic block patterns and marked with all the proportions needed for drafting by proportionate measure "systems"	D	adjustable set square
		E	curved rule
		F	pencil
1.2.4	Used for squaring up lines whilst pattern designing	G	triangle
1.2.5	Used for making seam allowances, on a finished pattern	H	yard stick
		I	graduated square
1.2.6	Used for drawing and measuring long, straight lines	J	flexible rule
1.2.7	Used for length curves on two-piece sleeves, lapels and for some types of flared hemlines	K	tailor's square
		L	pattern weights
1.2.8	Used for drawing curves when designing patterns, made of plastic with a lead centre		
1.2.9	Used for making all types of curves in the creating of patterns		
1.2.10	Pierces small holes to indicate back-offs points of darts, trim, details, buttonhole placement, pocket locations on patterns		

(10 × 1) (10)

1.3 Indicate whether the following statements are TRUE or FALSE by writing only 'True' or 'False' next to the question number (1.3.1–1.3.10) in the ANSWER BOOK.

1.3.1 To measure chest, pass the tape around chest and over shoulder blades at back.

1.3.2 To measure waist, around the chest position.

1.3.3 To measure seat, around the fullest part of the lower half of the figure.

1.3.4 To measure back length to waist, from nape to waist at the centre back down the natural waistline.

1.3.5 To measure across back, from the crease lines where the arms join the body across the front.

1.3.6 To measure waist to knee, down from the natural waist to crotch level.

1.3.7 To measure shoulder width, from curve of neck to edge of shoulder.

1.3.8 To measure front length to waist, from top of hollow at front neck down to waistline.

1.3.9 To measure shoulder to wrist length, from the edge of the shoulder to the elbow.

1.3.10 To measure inside arm length, from where arm joins body to wrist.

(10 × 1) (10)

1.4 Give ONE word or term for each of the following descriptions. Write only the word or term next to the question number (1.4.1–1.4.5) in the ANSWER BOOK.

1.4.1 Straight line that indicates the direction to lay the pattern part on the fabric

1.4.2 The straight lines are bent with arrows pointing towards the edge of the pattern dart.

1.4.3 The biggest measurement on the lower part of the body

1.4.4 Markings to indicate the matching/balancing points for the matching of parts of a garment

1.4.5 Restricted fullness in a garment (disposal of fullness)

(5 × 1) (5)

Copyright reserved

1.5 Describe the following pattern construction terms/words. Write your answer next to the question number (1.5.1–1.5.5) in the ANSWER BOOK.

1.5.1 Cutting lines

1.5.2 Seam allowances

1.5.3 Direct measuring system

1.5.4 Slashing

1.5.5 Flare

(5 × 3) (15)
[50]

TOTAL SECTION A: 50

SECTION B

1. All the drafts must be done in the specified scale.

2. Drafts must be done on WHITE TYPING PAPER. Use a black fineliner pen to make clear construction lines. Do not cut out the drafts. Paste the draft(s) onto the ANSWER BOOK.

3. It is not necessary to trace any of the blocks for planning and manipulation.

4. Enough basic blocks are provided for the planning and manipulation. Use the WHITE TYPING PAPER for manipulations.

5. Manipulations must be pasted directly into the ANSWER BOOK. Then add seam and hem allowances, if required.

6. No loose parts will be marked.

7. Number all the questions clearly and correctly.

8. Do not use red or green pens.

Copyright reserved

QUESTION 2

Draft the five-year old boy's basic shirt block on half scale using the following instructions and measurements:

MEASUREMENTS

Full length of shirt	43,5 cm
Chest	58,5 cm
Across chest	25 cm
Across back	26 cm
Back length	27 cm
Shoulder width	9 cm

INSTRUCTIONS:

In half scale mark 1 as starting point on the left side of paper.
Square down and out from 1.

1–2	=	Full shirt length down. Square to the right.
1–3	=	Half chest plus 3 cm to the right. Square down.
4	=	Where 2 and 3 meet. (Complete the rectangle.)
5	=	Midway between 1 and 3.
6	=	Midway between 2 and 4. Join 5 and 6.
1–7	=	Half back length to waist measurement plus 1 cm. Square to the right for 8 on the 3 to 4 line for the scye depth line.
9	=	Midway between 1 and 7. Square to the right for 10 on the 3 to 4 line.
1–11	=	One quarter across back measurement measured to the right.
11–12	=	Square up 1 cm. Curve the back neck line.
3–13	=	Distance of 1 to 11 to the left.
13–14	=	Square up 1 cm.
3–15	=	Distance of 3 to 13. Curve from 14 to 15 for the front neckline.
1–16	=	Back length to waist measurement down. Square out to 17 for the waistline. Draw in a dotted line 1,2 cm below the 1 to 3 line.
12–18	=	Shoulder width measurement diagonally onto the dotted line. Join 12 and 18 for the back shoulder line.
14–19	=	Shoulder width measurement diagonally onto the dotted line. Join 14 and 19 for the front shoulder line.
9–20	=	Half the across back measurement plus 6 mm to the right for the across back line. Square down on the 7 to 8 line.
10–21	=	Half across chest measurement plus 6 mm to the left for the chest line. Square down to 7 to 8 line.
22	=	1,5 cm below where the 7 to 8 line and 5 to 6 line cross. Curve the back armhole from 18 through 20 to 22. Curve the front armhole from 19 through 21 to 22. Add 1,5 cm at centre front for buttonhole stand (wrapover).

Label the block.
Indicate the centre front and centre back.
Add the grainline. **[50]**

Copyright reserved

QUESTION 3

Trace and separate the back and the front of the boys' trouser block based on the sketch on ADDENDUM A (attached).

Label the block and add the grainline.
Indicate the crotch line, knee line, hip line and hemline.

3.1 Submit the front trouser block. (12)

3.2 Submit the back trouser block. (12)
[24]

QUESTION 4

Manipulate a 5-year old girl's sleeve with gathers at the sleeve head on half scale. Use the measurements below. Use the sleeve block on ADDENDUM B (attached).

MEASUREMENTS:

Facing depth	2 cm
Seam allowance	1,5 cm
Facing edge seam	5 mm
Cuff/Wrist for shirt sleeve	21 cm
Cuff depth	3 cm

INSTRUCTIONS:

Sleeve
Measure 5 cm underarm points and square across.
Measure inwards 2,5 cm from underarm seams.
Draw in facing.
Indicate front and back pitch.
Square down from back and front pitch points.
Divide centre section into six.
Number each section.
Indicate dots at the bottom of each slash line.
Indicate slash lines and slash along lines to dots at hemline.
Indicate 2 cm on each slash line for gathers allowance.
Indicate gathers at the sleeve head.
Add the grainline. Label the pattern.

Cuff
A – B = 21 cm cuff size
A – C = 3 cm cuff depth
C – D = 21 cm
B – D = 3 cm

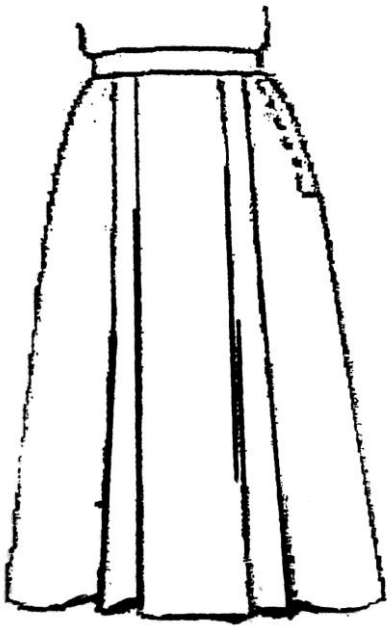
4.1 Submit the planning of the sleeve. (26)

4.2 Submit the planning of the cuff. (8)
[34]

Copyright reserved

QUESTION 5

Study the sketch below and use the copies of the LADIES' SKIRT WITH KNIFE PLEATS and use the block, size 13 on ADDENDUM C (attached), ON FIFTH SCALE.



5.1 Submit the planning stage of the front skirt. (17)

5.2 Submit the working pattern of the skirt front. (25)

MEASUREMENTS:

Zip length	20 cm
Pleat depth	4 cm

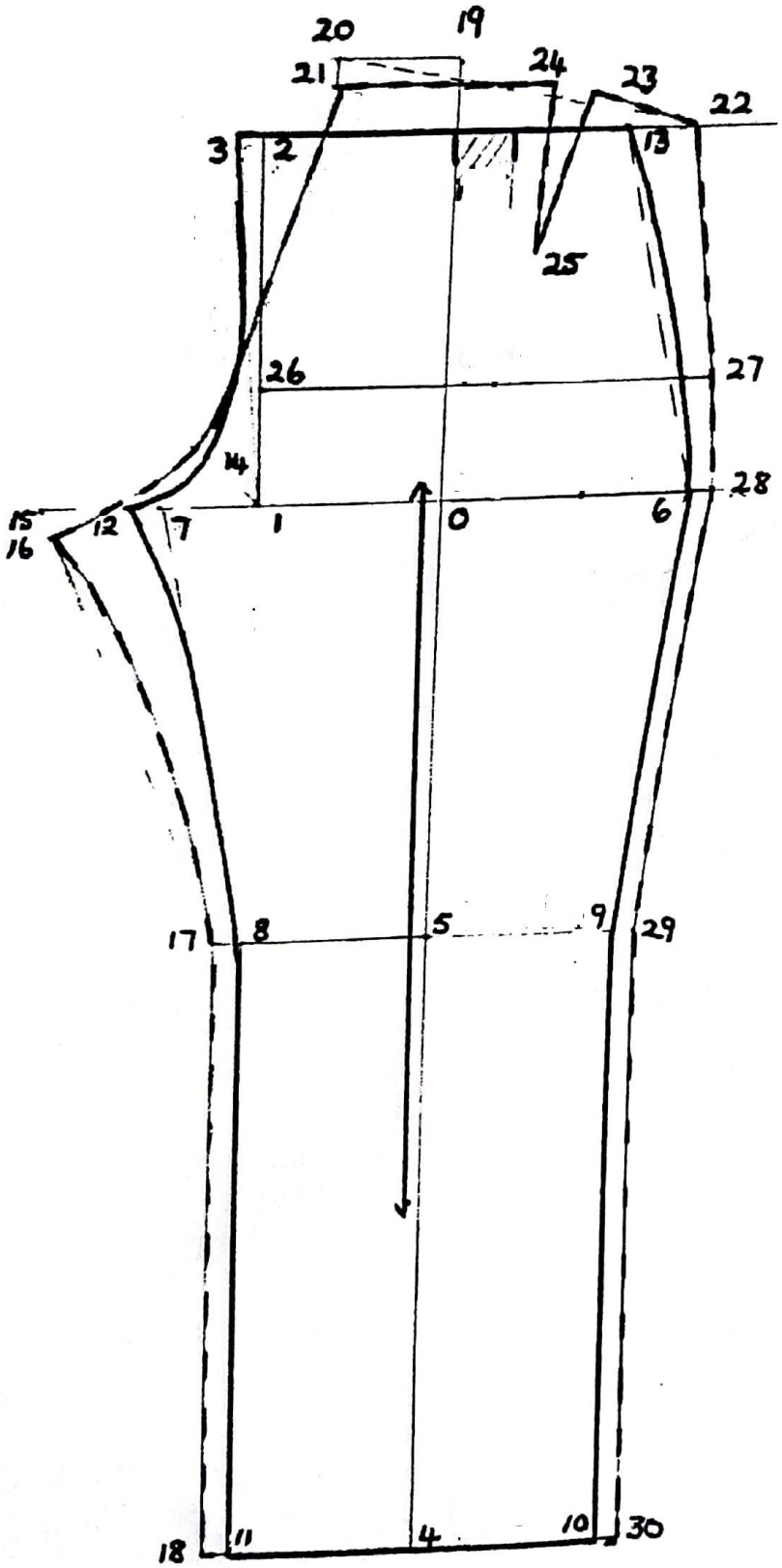
INSTRUCTIONS:

A = Centre front waistline.
B = Centre front hemline.
A–C = 4 cm.
B–D = 4 cm.
C–F and D-E = 4 cm.
Move the dart to the line from F to E.
Draw in slash lines.
Cut along slash lines.
Spread pleat two times pleat depth (2 × 4 cm).
Indicate the direction of the pleat.
Fold pleat to block out waistline and hemline.
Indicate zip length.
Draw the hipline.
Mark grainline and label the pattern pieces.

TOTAL SECTION B: 150
GRAND TOTAL: 200

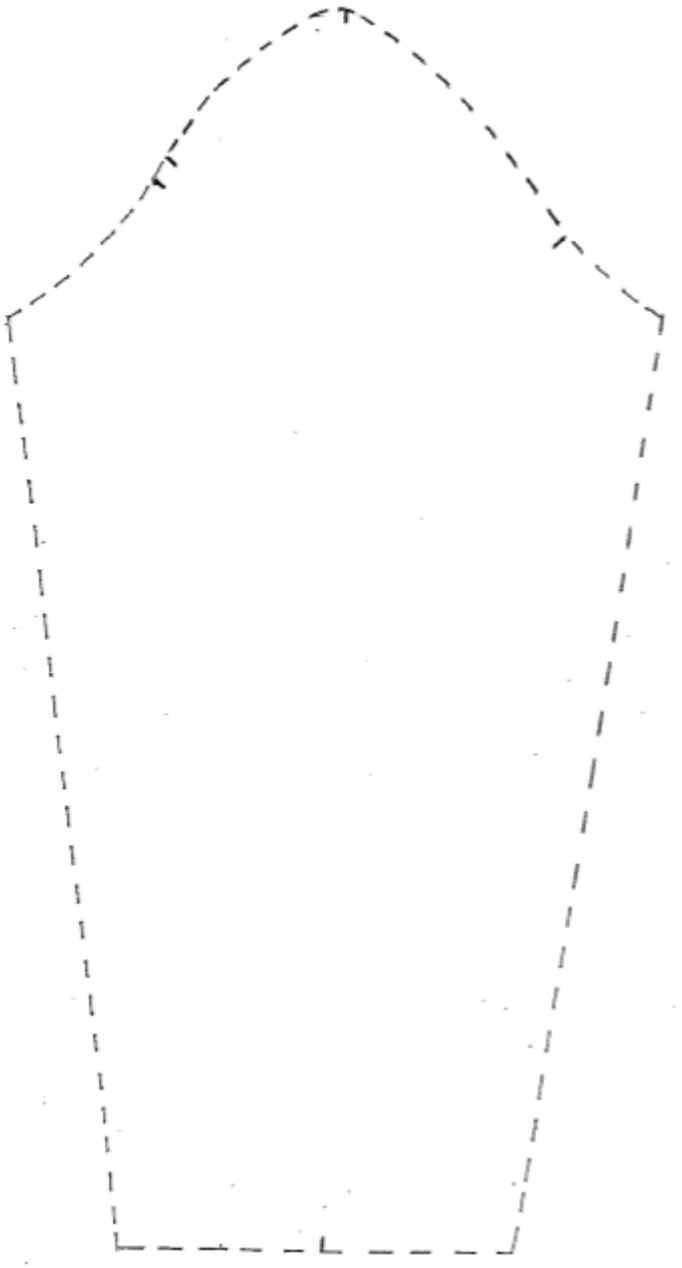
Copyright reserved

ADDENDUM A



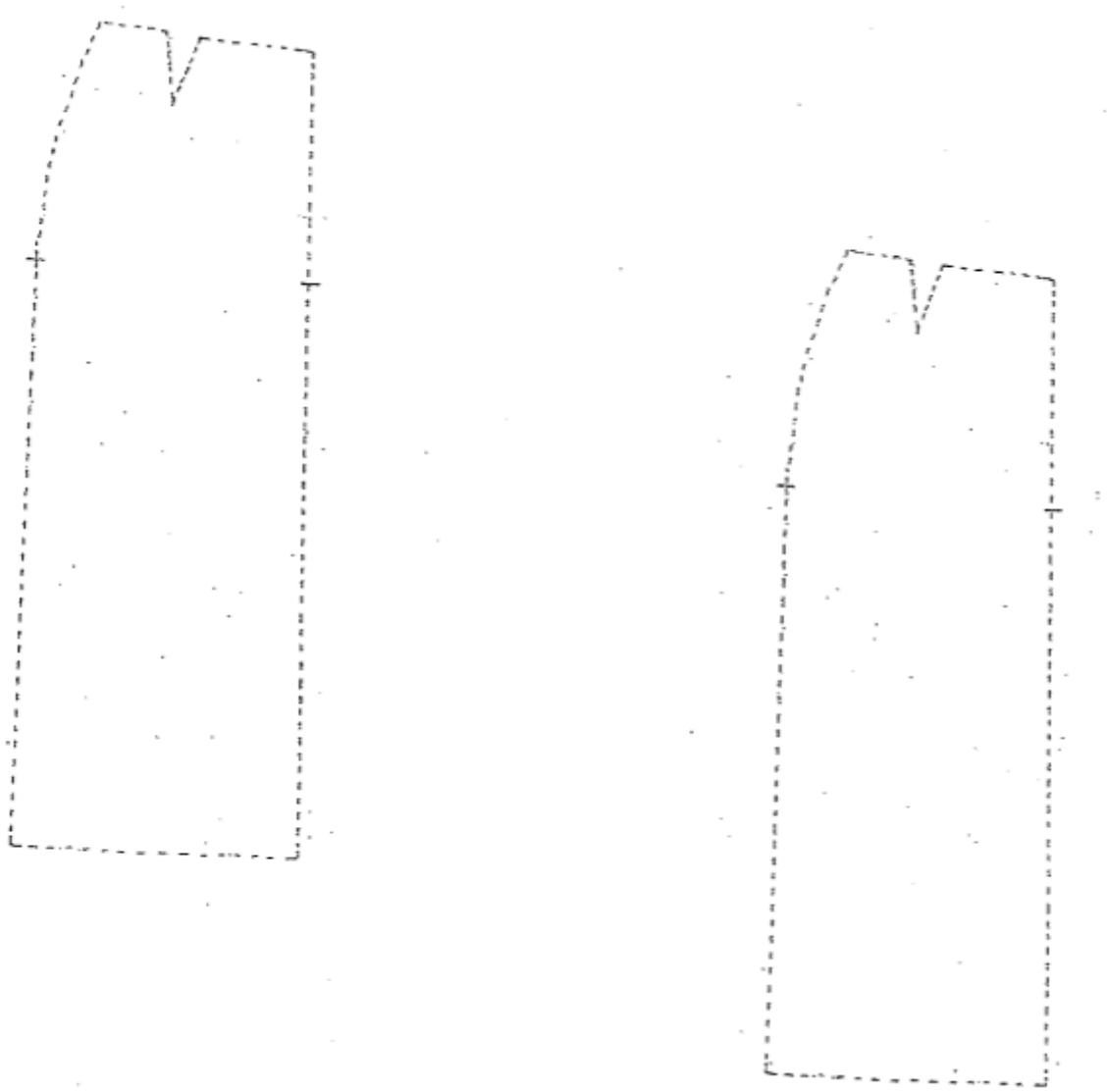
Copyright reserved

ADDENDUM B



Copyright reserved

ADDENDUM C



Copyright reserved