



GAUTENG PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

Revision Test (Mock)

TERM 3

2024

Sedibeng West

GRADE 8

MATHEMATICS

MARKS: 50

TIME: 1 hour

This question paper consists of 8 pages.

MATHEMATICS

INSTRUCTIONS AND INFORMATION

1. This question paper consists of **SECTION A** and **SECTION B** based on the prescribed content framework in the CAPS document.

SECTION A: MULTIPLE CHOICE

QUESTION 1: 5 MULTIPLE CHOICE QUESTIONS.

SECTION B: FOUR QUESTIONS BASED ON COVERED TOPICS

QUESTION 2: ALGEBRAIC EXPRESSIONS.

QUESTION 3: ALGEBRAIC EQUATIONS.

QUESTION 4: GEOMETRY OF STRAIGHT LINES.

QUESTION 5: GEOMETRY OF 2D SHAPES.

2. Answer ALL questions in both SECTIONS.
3. A non-programmable calculator may be used unless otherwise stated.
4. In **SECTION A** choose the correct letter.
5. In **SECTION B** show all necessary steps in your working unless otherwise stated.
6. When answering questions, candidates must apply their knowledge, skills, and insight.
7. Number the answers correctly according to the numbering system used in this question paper.
8. Write neatly and legibly.

QUESTION 1

FOR EACH QUESTION, CHOOSE THE CORRECT LETTER OF THE CORRECT ANSWER.

1.1	Simplify: $1x^2 + 2x^2 + 3x^2$ A. $6x^6$ B. $6x^2$ C. $6x^8$ D. $6x$		(1)
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1.2

The equation $y = 2x - 1$ is given. Which table representing the equation.

(1)

A.

x	-1	0	1	4
y	3	-1	-1	-7

B.

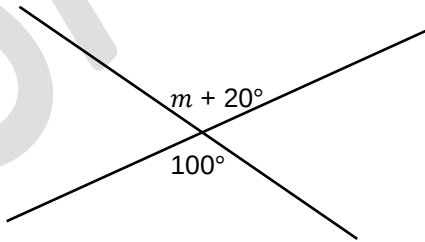
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y	-3	1	1	7

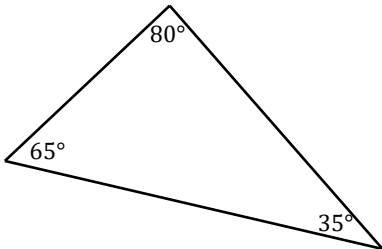
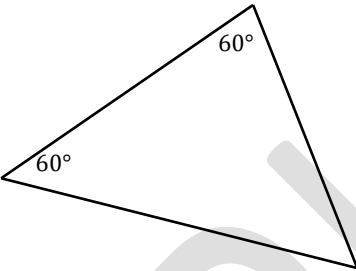
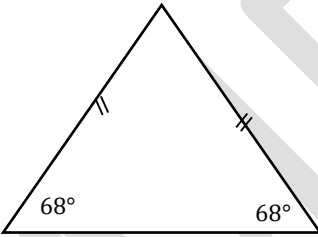
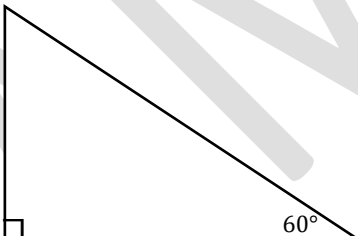
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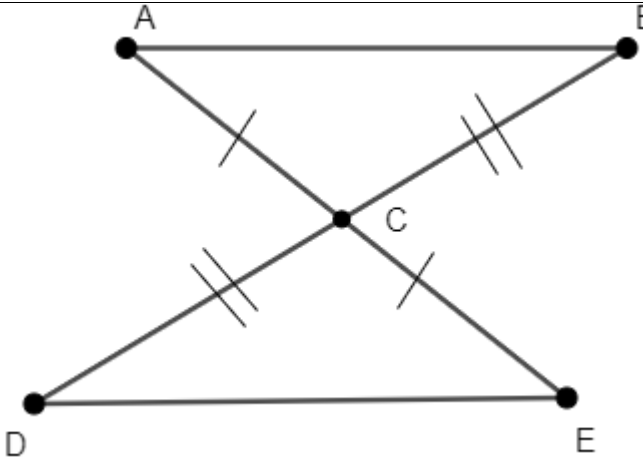
x	-1	0	1	4
y	-3	-1	1	7

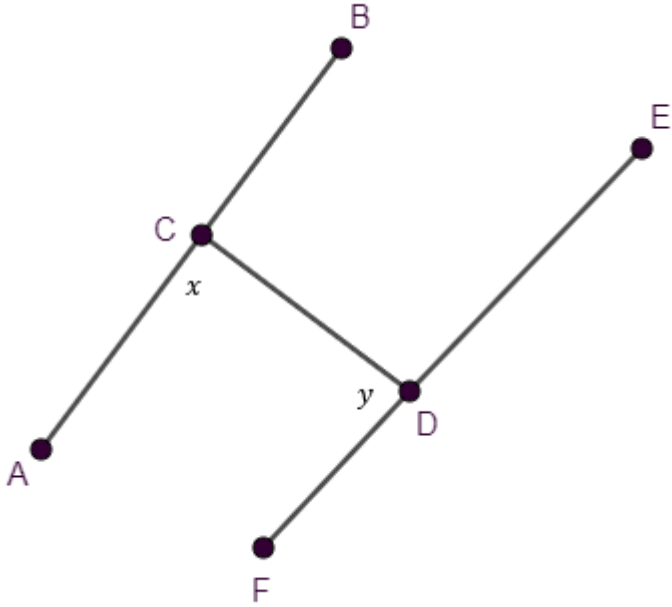
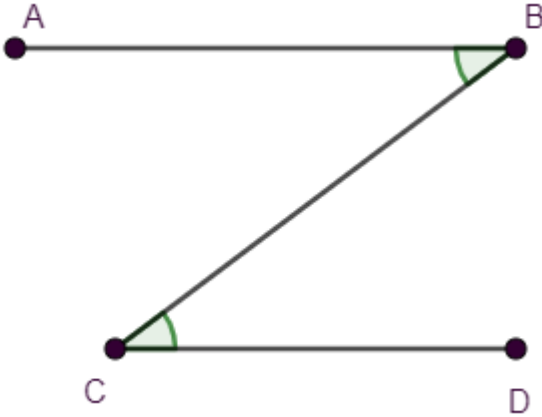
D.

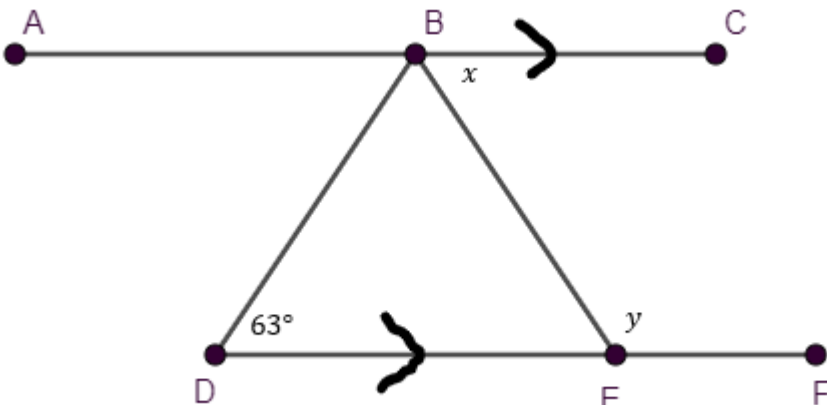
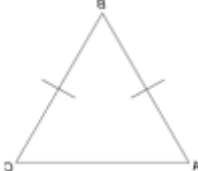
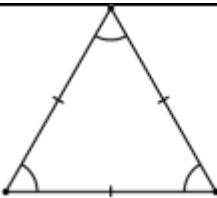
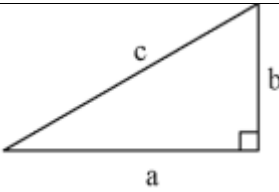
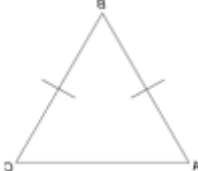
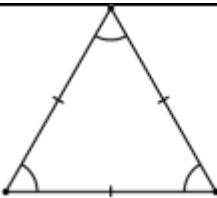
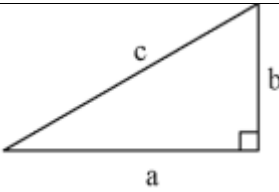
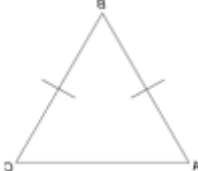
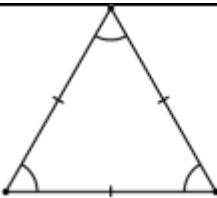
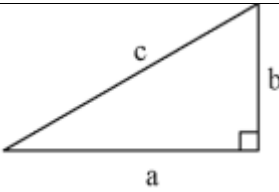
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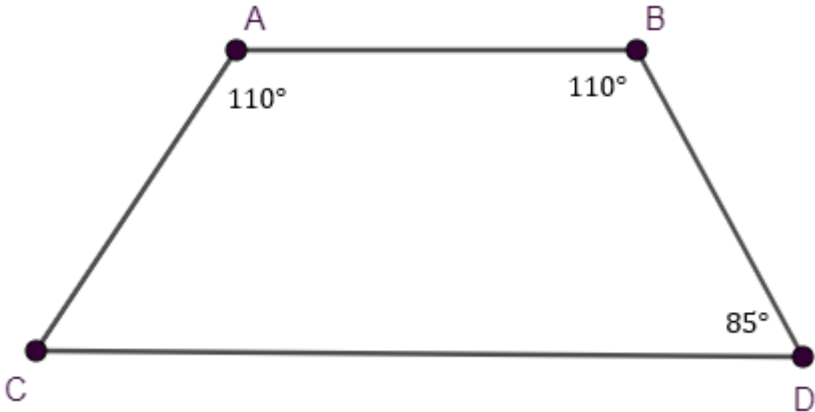
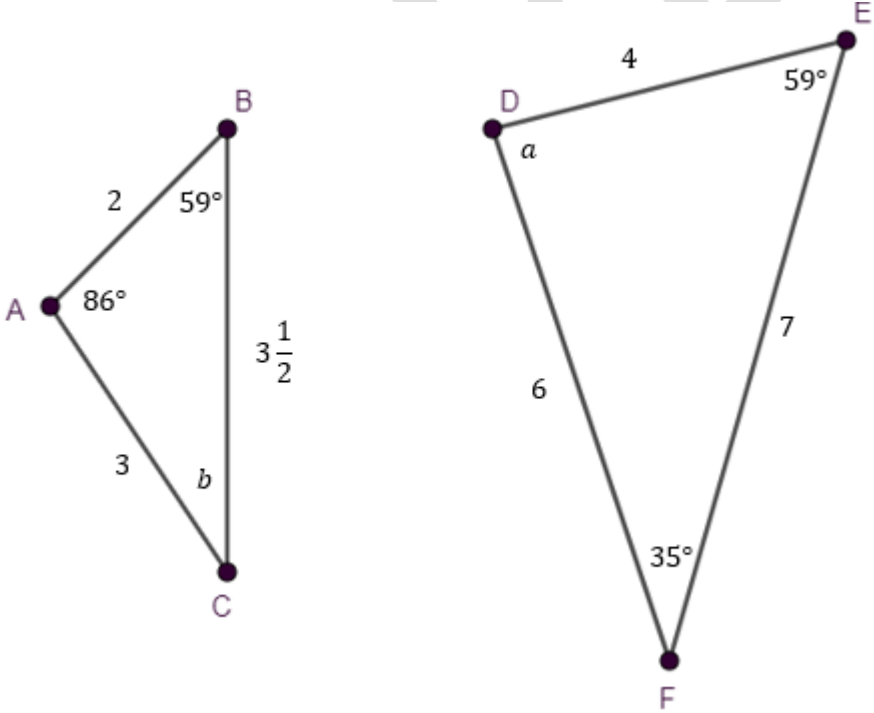
1.3	What is the size of m?  A. 80° B. 60° C. 100° D. 160°		(1)
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1.4	Which one of the following triangles is an equilateral triangle? A  B.  C.  D. 	(1)
1.5	$\triangle ACB \equiv \triangle ECD$, because	(1)

 A. A, A, S B. R, H, S C. S, A, S D. S, S, S			
			[5]
QUESTION 2			
2.1	Simplify the expression: $2x + 4 - 3x - 2$		(2)
2.2	Simplify: $\frac{2x^4y \times 3x^2y}{12x^6y^2}$		(2)
2.3	Simplify: $\frac{-12x-6}{6}$		(2)
2.4	Simplify: $2p + 2p \times (3q - 5q) + 4q \times (-3p)$		(2)
2.5	If $x = 2$ and $y = -5$ determine the value of: $4x^2y + y^3$		(3)
			[11]
QUESTION 3			
Solve the following equations			
3.1	$-3 - (x + 2) = x + 8$		(3)
3.2	$4 + \frac{x - 2}{4} = -2$		(3)
3.3	$3^{x-1} = 81$		(3)
			[9]
QUESTION 4			

4.1	Are the following statements true or false? Give a reason for your answer.		
4.1.1	When two lines intersect and extended, vertically opposite angles are equal.		(1)
4.1.2	 $x + y = 180^\circ$		(2)
4.1.3	 $AB \parallel CD$		(2)
4.2	Given: $AC \parallel DE$, $\widehat{ABD} = \widehat{DBE}$, $\widehat{BDE} = 63^\circ$		

												
4.2.1	Calculate the value of x , provide reasons.		(4)									
4.2.2	Calculate the value of y , provide reason.		(2)									
			[11]									
QUESTION 5												
5.1	Match column A with column B.		(4)									
<table><tr><th>Column A</th><th>Column C</th></tr><tr><td>5.1.1. Scalene Triangle</td><td> (i)</td></tr><tr><td>5.1.2. Equilateral Triangle</td><td> (ii)</td></tr><tr><td>5.1.3. Right Angled Triangle</td><td> (iii)</td></tr><tr><td>5.1.4. Isosceles Triangle</td><td> (iv)</td></tr></table>		Column A	Column C	5.1.1. Scalene Triangle	 (i)	5.1.2. Equilateral Triangle	 (ii)	5.1.3. Right Angled Triangle	 (iii)	5.1.4. Isosceles Triangle	 (iv)	
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5.1.3. Right Angled Triangle	 (iii)											
5.1.4. Isosceles Triangle	 (iv)											

5.2			
	5.2.1	ABCD is a _____	(1)
	5.2.2	Calculate $\hat{C}$, giving reason.	(3)
5.3			
	5.3.1	Calculate a and b . Provide reasons.	(4)
	5.3.2	What can you conclude about the two triangles and why?	(2)
			[14]

Total	50 Marks
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