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Litiko le Temfundvo, Umnyango we Fundo

Departement van Onderwys

Ndzawulo ya Dyondzo

NAME OF LEARNER:

MATHEMATICS BASELINE TEST: TERM 3 2024

GRADE: 9

MARKS: 15

DURATION: 1 Hour

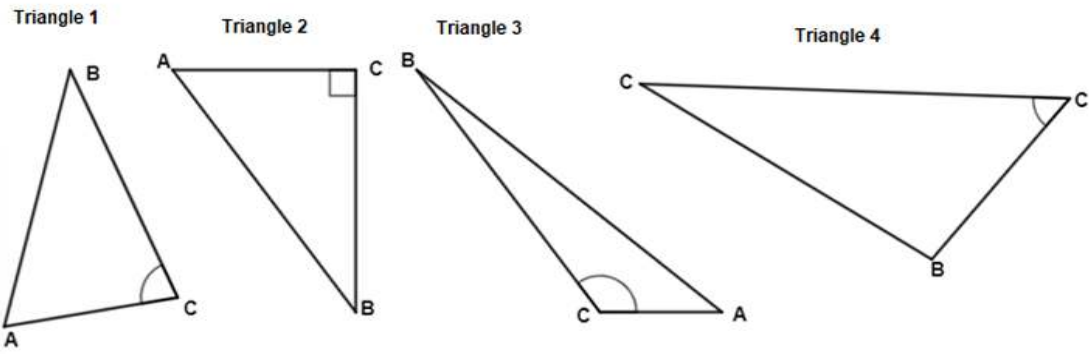
This test consists of 9 pages, including the cover page.

Instructions and information to the learner	
1.	Read the questions carefully
2.	Answer ALL the questions
3.	Circle only the letter for the correct answer , e.g. If the correct answer in 1. is D, you should only circle D
4.	There is only one correct answer in each question
5.	This question paper consists of 15 questions.
6.	Diagrams are NOT drawn to scale

MATHEMATICS BASELINE TEST

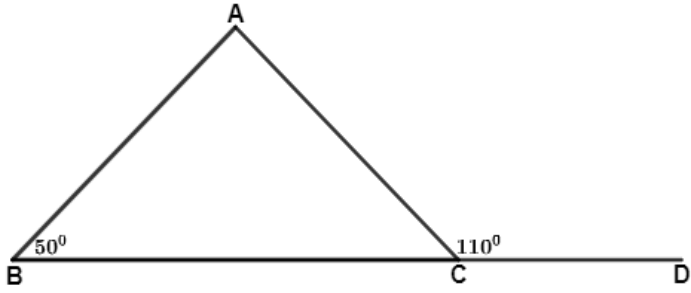
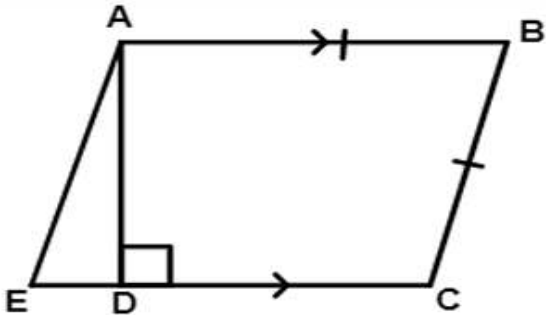
July 2024
Grade 9

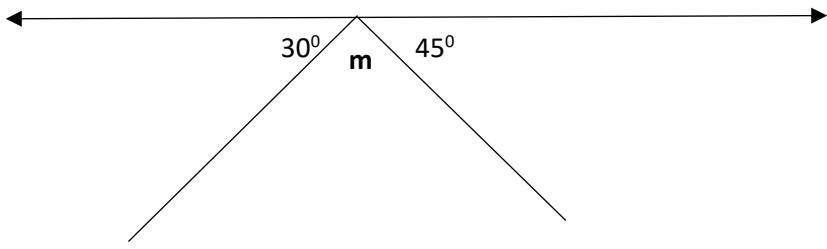
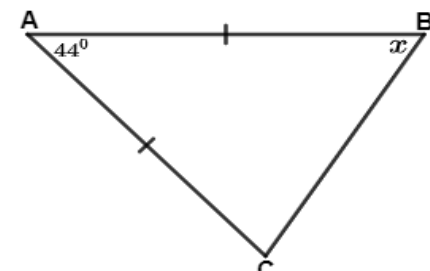


1.	Which triangle has only two equal sides?		(1)
	A	Right- angled triangle.	
	B	Equilateral triangle.	
	C	Isosceles triangle	
	D	Scalene triangle.	
2.	What is the sum of interior angles in a triangle?		(1)
	A	90^0	
	B	360^0	
	C	270^0	
	D	180^0	
3.	Which of the triangles below is a right-angled triangle?		(1)
			
	A	Triangle 1	
	B	Triangle 2	
	C	Triangle 3	
	D	Triangle 4	

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4.	In the diagram below, BC is produced to D. $\hat{B} = 50^\circ$ and $\hat{ACD} = 110^\circ$.  What is the size of $\hat{BAC}$?		(1)
	A	160°	
	B	110°	
	C	70°	
	D	60°	
5.	Given quadrilateral ABCE with $AB \parallel CD$ and $AB = BC$, What is the shape ABCD called? 		(1)
	A	A parallelogram	
	B	A Square	
	C	A trapezium	
	D	A rhombus	

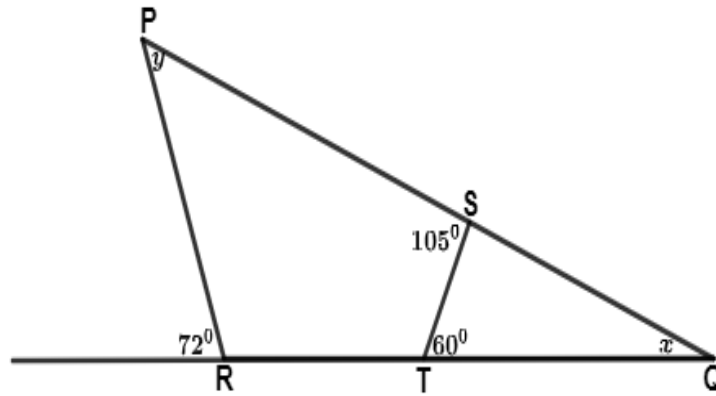
6.	What is the value of m in the diagram below?		(1)
			
	A	105°	
	B	75°	
	C	135°	
	D	45°	
7.	Two sides of the triangle ABC above are equal. Determine the value of x .		(1)
			
	A	46°	
	B	68°	
	C	134°	
	D	136°	

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8. Determine the size of the angle marked y .

(1)



A 72°

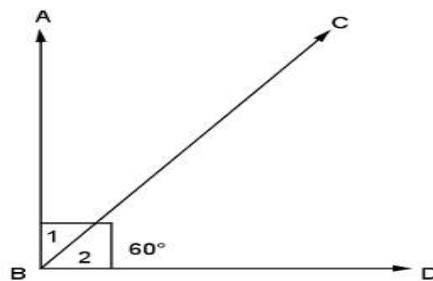
B 45°

C 60°

D 27°

9. What is the size of $\hat{B}$?

(1)



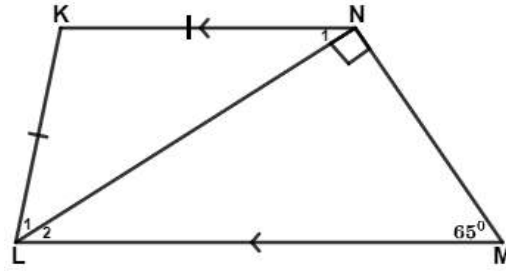
A 30°

B 60°

C 45°

D 90°

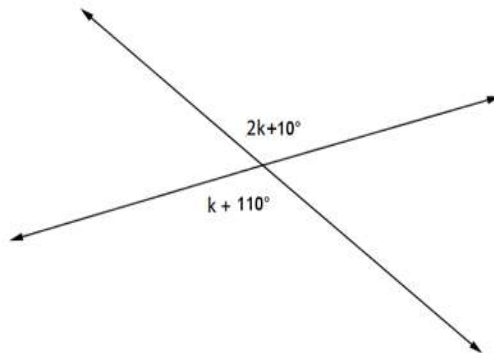
10. KLMN is a trapezium with $KN = KL$ and $MN \perp LN$.
What is the size of $\angle KLN$?



(1)

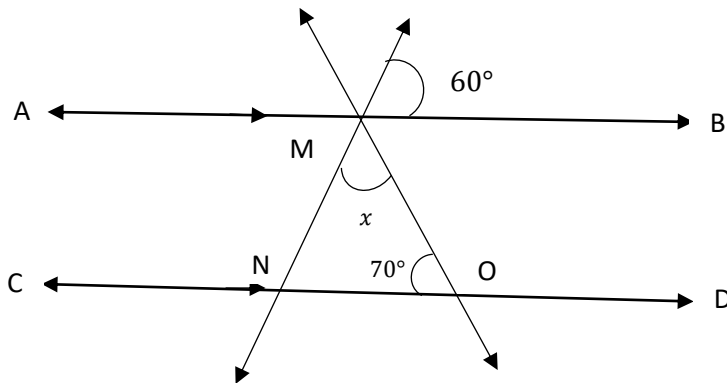
A 25° B 65° C 130° D 155°

11. What is the value of k ?

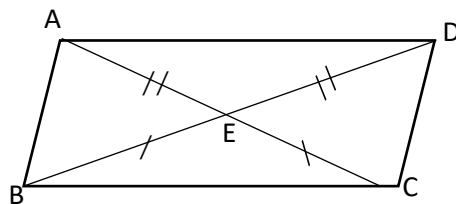
A 110° B 120° C 100° D 170°

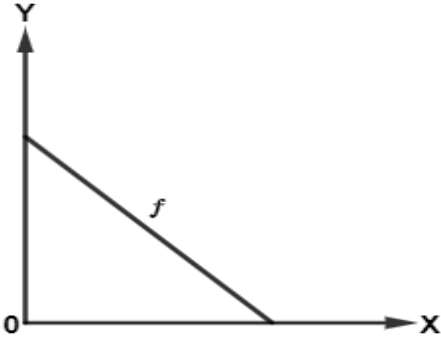
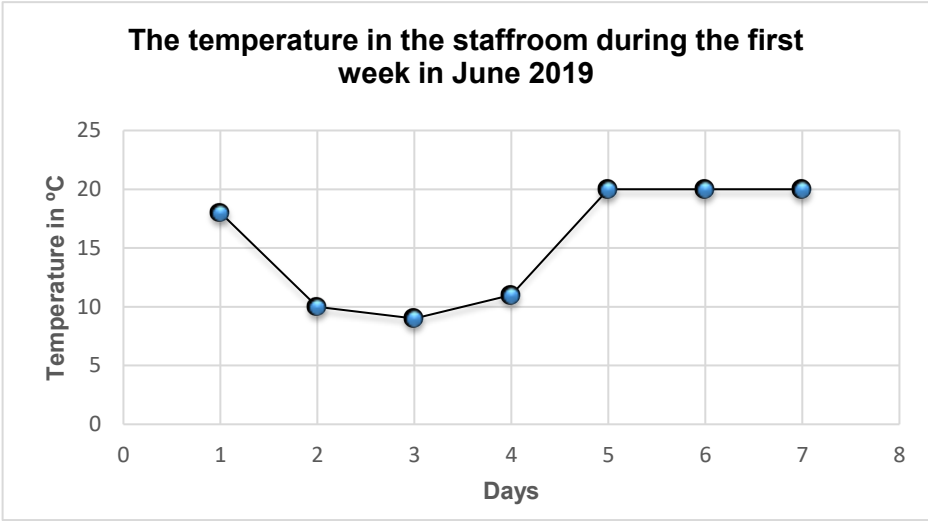
12. Lines AB and CD are parallel with points of intersections at M, N and O. What is the value of x ?

(1)

A 50° B 110° C 70° D 130°

13. ABCD is a parallelogram with AE = ED and BE = EC, therefore ...

A $\triangle AEB \cong \triangle CED$ B $\triangle AED \cong \triangle BEC$ C $\triangle AEB \cong \triangle DEC$ D $\triangle AED \cong \triangle BEC$

14.	Which one of the following phrases best describes the graph of f ?		(1)
			
	A	Non-linear and discrete	
	B	Linear and increasing	
	C	Linear and decreasing	
	D	Non-linear and continuous	
15.	Which of the following best describes the temperature from day 1 to day 3?		(1)
	The temperature in the staffroom during the first week in June 2019 		
	A	Constant	
	B	Increasing and constant	
	C	Decreasing and constant	
	D	Decreasing	