



# Noah's Ark Independent Primary School

Subject: Mathematics	Examiner: Mr Matongo
Type: End of Term/ Test	Moderator: Ms Moyo
Date: 14 March 2022	Grade: 7-S
Marks: 80 Marks	Time: 2 hours

Name: \_\_\_\_\_

## Instructions:

Read the questions carefully before you start writing.

Make sure you answer ALL the questions.

Write neatly and legibly.

## Section A.

1. Replace  $\square$  with  $>$  ;  $<$  or  $=$  (1)

$$254\ 643 \square 432\ 965.$$

2. Arrange the following numbers in ascending order. (1)

8 953	8 574	8 067	8 900	8 909
1	2	3	4	5
_____	_____	_____	_____	_____

3. Write the number in digits- (1)  
Eighty million three hundred and ninety one thousand and five

4. What is the value of the underlined digit? 28 408 563? (1)

5. The factors of the prime numbers are \_\_\_\_\_? (1)

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6. 1 is not a prime number because \_\_\_\_\_  
\_\_\_\_\_

7. Write down the first 4 prime numbers (1)  
\_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_ ; \_\_\_\_\_

8. Complete the table below. (2)

Number	Nearest 5	Nearest 1000
4492874		

9. Calculate the following-

(a)  $5694 \times 58$  (2)

(b)  $321 \overline{) 144450}$  (3)

10. Share 40 sweets between ANÉ and Rea in the ratio 3:7  
Clearly show your calculations. (3)

ANE's share	Rea's share

11. Calculate  $14 + 17 - 18 - 6$  using order of operations. (2)

12. What is the LCM of 12 and 16 (2)

12	
16	

Therefore LCM of 12 and 16 = .....

13. Write 36 in exponential form using only prime numbers as bases. (1)


.....

14. Write R35 : R45 as a simple ratio (1)

15. If a car travels at a constant speed of 120km/h. How far will it travel in 4 hours? (2)

16. Compare these calculations. Fill in  $>$  ;  $<$  or  $=$  (2)

(a).  $5^2$    $5 \times 2$                       (b).  $||x||$    $||^2$  (2)

17. Find the value of the following:-

a.  $\sqrt{225 - 144}$  (2)                      b.  $\sqrt{64} + \sqrt{49}$  (2)

=

= +

=

=

c.  $(\sqrt[3]{125})^2$  (3)

=

----- x -----

=

18. Write each number as the product of its prime factor  
And find the HCF (3)

$$72 = \text{-----} \times \text{-----} \times \text{-----} \times \text{-----} \times \text{-----}$$

$$108 = \text{-----} \times \text{-----} \times \text{-----} \times \text{-----} \times \text{-----}$$

= -----

= -----


19. Mr Legodi buys a television set, costing R 3 000.  
A discount of 10% was offered for cash. How much will he pay for the television if he buys it for cash? (2)

R ----- - (-----)

R ----- - R -----

R -----

Therefore Mr Legodi will pay

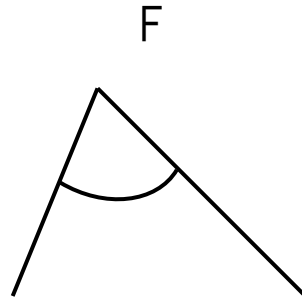
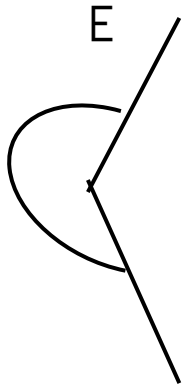
R -----

20. Palesa makes 25 bead necklaces and sells it for R/2,50 each.  
If it cost her R6 to make, work out her profit. (4)

Therefore Palesa's profit is		

## Section B: Measurement

1. Which of the following angles are bigger than the other one? (1)

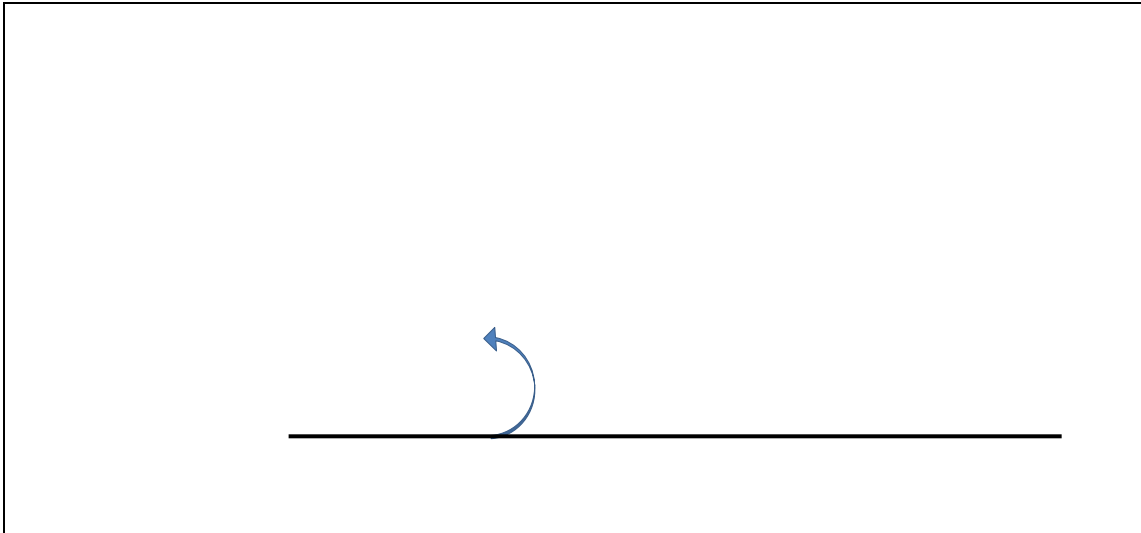


Angle \_\_\_\_\_ is bigger.

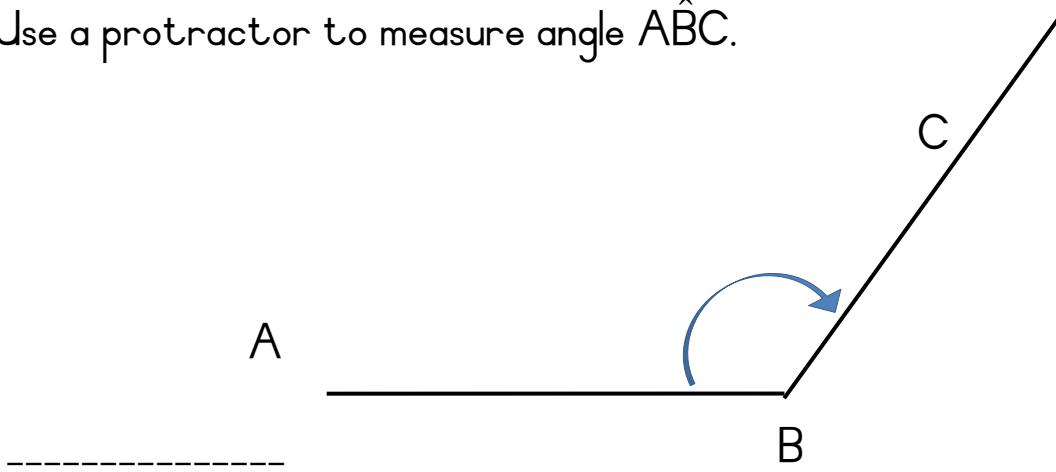
2. Name the above angles (2)

E \_\_\_\_\_ F \_\_\_\_\_

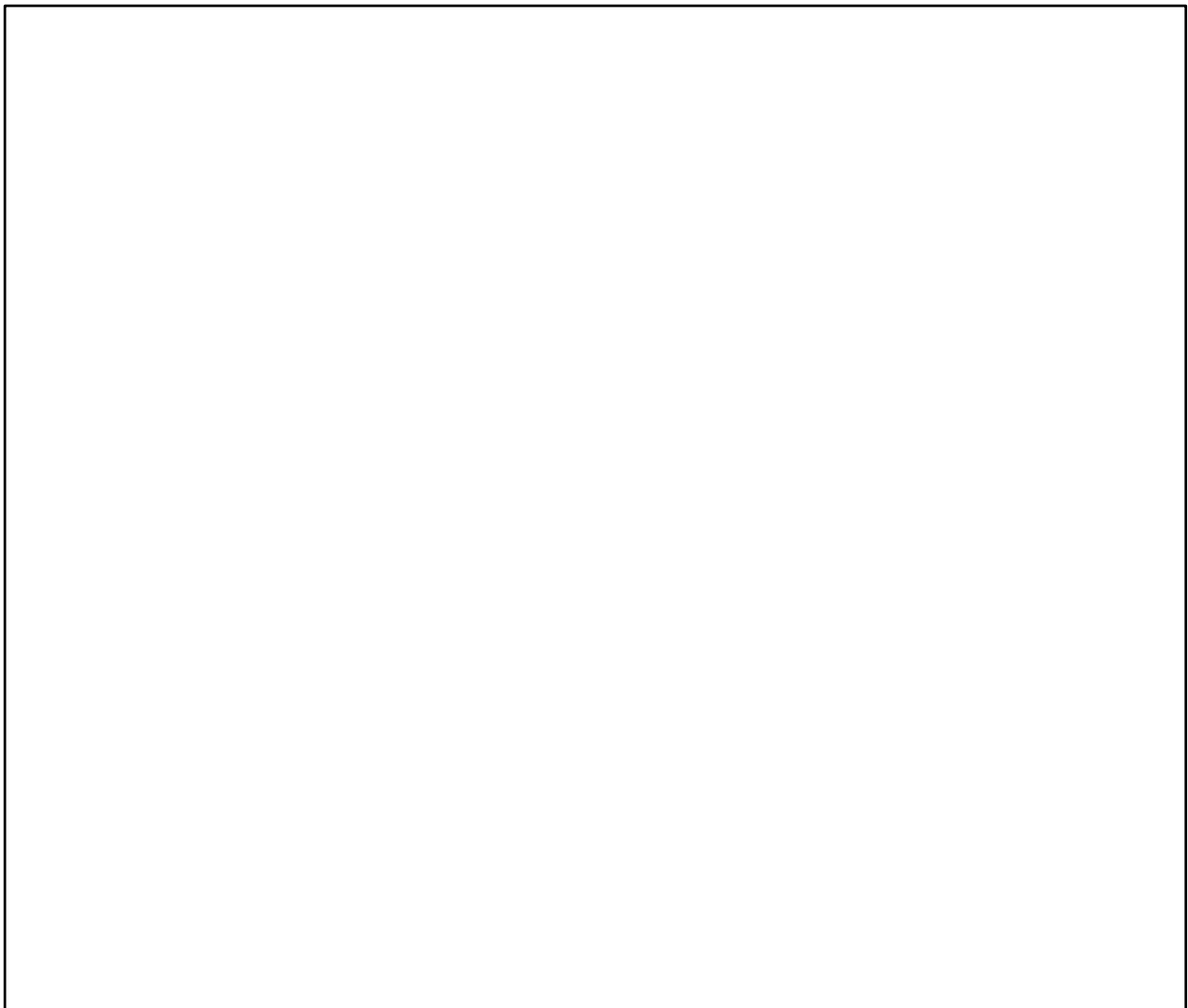
3. Construct a  $60^\circ$  angle using a compass, pencil and a ruler. (2)



4. Use a protractor to measure angle  $\hat{A}BC$ . (1)



5. Draw a circle with a radius of 4cm. Clearly label the centre, radius, circumference and the diameter. (5)

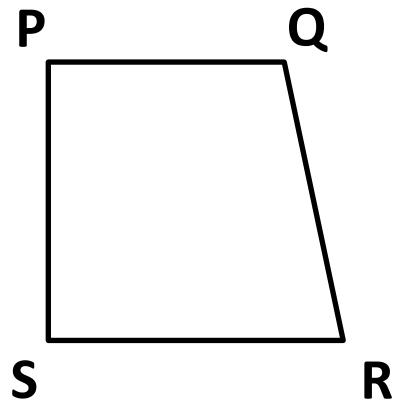


Study the diagram and list the .....

Vertical line segment

Horizontal line segment

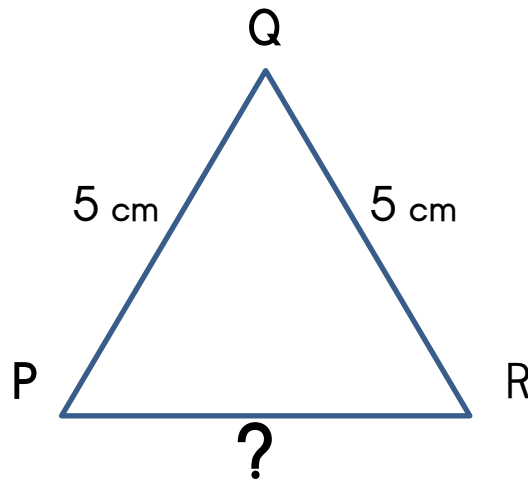
Oblique line segment



- a PS .....
- b SR .....
- c QR .....

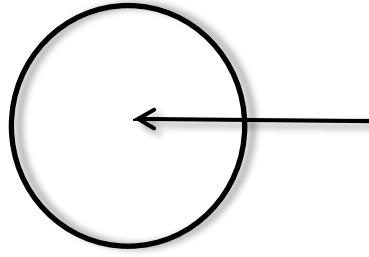
6.  $\triangle PQR$  is an isosceles triangle. If the perimeter is 16cm and  $PQ = QR = 5\text{cm}$ . Calculate PR.

(2)



7. Name the following angle

(1)



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\_\_\_\_ / 17 Marks (Section B)

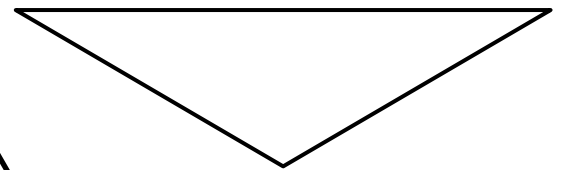
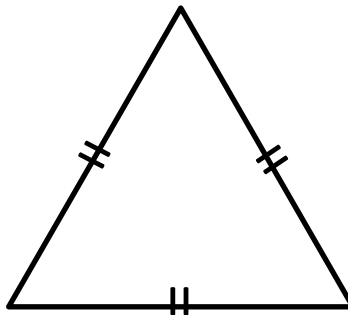
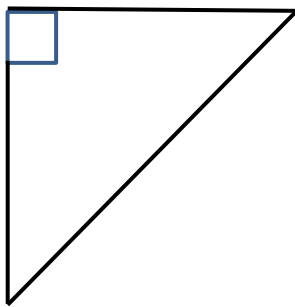
Section C: Space and Shape

Circle the correct answer.

1. The sum of the interior angles of a triangle is equal to \_\_\_\_\_ (1)

- A.  $90^\circ$       B.  $360^\circ$       C.  $120^\circ$       D.  $180^\circ$

2. Name the following triangles . (3)

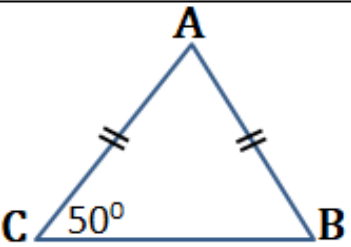
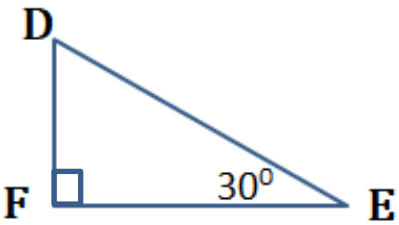
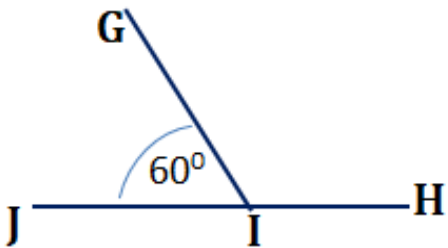


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3. Calculate the sizes of the unknown angles below: -

	$\hat{A} =$ (3)
	$\hat{D} =$ (3)
	$\hat{G I H} =$ (2)

4. Differentiate between the following.

a. Acute and Obtuse angle (2)

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b. A Square and a Rectangle (2)

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5. Complete the table below. Choose your answer from:- (4)

Scalene ; Isosceles ;  $360^\circ$  ;  $180^\circ$  ; Square ; Nonagon ;

Octagon ; Perimeter ; Area ; Rectangle.

Description		Answer
a	A polygon with 8 sides	
b	The sum of the angles of a triangle	
c	The distance around the shape	
d	A regular polygon with 4 sides	

\_\_\_\_ / 20 Marks (Section C)

\_\_\_\_ / 80 Marks