All Multiple Choice

This diagram shows a triangle that is:



- obtuse and right angled Α
- acute and scalene
- obtuse and isosceles
- \mathbf{D} scalene

This diagram shows a triangle that is:



- acute and scalene
- obtuse and isosceles
- scalene
- right angled and scalene

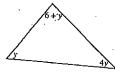
The value of the pronumeral \hat{x} is:



- 30°
- 60°
- \mathbf{C} 90°
- D 120°

Name:	
	

The value of the pronumeral y is:



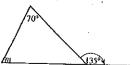
- A 51° \mathbf{B} 44°
- C 32°
- D 29°

The value of the pronumeral n is:



- 23° Α
- 90°
- 113°
- Ð 167°

The value of the pronumeral m is:



- 90°
- В 70°
- 65°
- D 35°

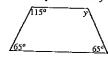
A quadrilateral with all sides equal in length is called a:

- A rectangle
- parallelogram
- square
- kite

A quadrilateral with two pairs of adjacent sides that are equal is called a:

- A parallelogram
- square
- С kite
- D trapezium

The value of the pronumeral y is:



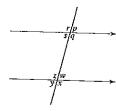
- A 65°
- В 115°
- C 130°
- D 230°

The value of the pronumeral x is:



- 30° Α
- В 45°
- C 55°
- 90°

Questions 11 and 12 refer to the following diagram:



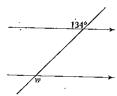
11 State which angle is co-interior to angle s.

- p
- В 357
- С q
- D

The angle which is vertically opposite to r is:

- \mathbf{A} , p
- В
- C
- D z

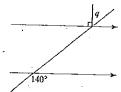
13



The value of the pronumeral w is:

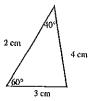
- A 46°
- 134° В
- 150°
- D 169°

14 نج



The value of the pronumeral q is:

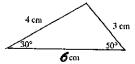
- 40°
- , B 50°
- C 90°
- D 120°



The shape above is best described as:

- A a triangle with angles 60° and 40° and side between them of length 2 cm
- B a triangle with angles 60° and 60° and side between them of length 4 cm
- C a triangle with angles 40° and 80° and side between them of length 3 cm
- D a triangle with angles 80° and 40° and side between them of length 3 cm

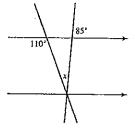
16



The shape above is best described as:

- A a triangle with side lengths 3 cm and 6 cm with an angle 30° between them
- B a triangle with side lengths 4 cm and 3 cm with an angle 50° between them
- C a triangle with side lengths 6 cm and 6 cm with an angle 50° between them
- D a triangle with side lengths 4 cm and 6 cm with an angle 30° between them.

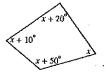
17



The value of the pronumeral x is:

- A 70°
- B 85°
- C 50°
- D 25°

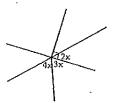
18



Which of the following statements is true?

- A $x + 50^{\circ} = x + 20^{\circ}$
- B $4x + 80^{\circ} = 360^{\circ}$
- C $x = x + 10^{\circ}$
- D $4x = 180^{\circ}$

19



The value of the pronumeral x is:

- A 20°
- B 40°.
- C 60°
- D 80°

- 20 A rectangle can be best described as:
 - A A square with uneven sides
 - B A parallelogram with a right angle
 - C A quadrilateral
 - D A rhombus with a right angle.

Name:

Are the following statements true or false?
(a) The triangle is both right angled and scalene.



(b) The triangle is both obtuse and isosceles.



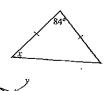
Draw a triangle that is both:

- (a) acute and equilateral
- (b) acute and isosceles.

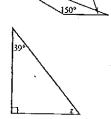
. Find the value of the pronumeral in each triangle.

(a)

(b)



(c)

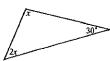


Find the value of the pronumeral in each triangle.

(a)

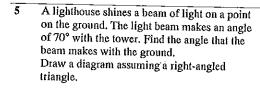


(b)

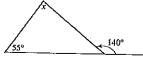


(c)





6



The value of x in the triangle is:

A 53°

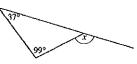
B 85°

C 90°

D 180°

7 Find the value of the exterior angles.

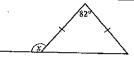
(a)



(b)



8



The two sides of a roof meet at an apex angle of 82°. Find the obtuse angle, x, that the roof makes with the ground.

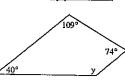
- 9 (a) Draw a shape with 4 sides where there is only one pair of parallel sides.
 - (b) How would you best describe this shape?
- 10 Draw the solution to each of the following.
 - (a) With one line divide a square into two rectangles.

(b) With one line divide a rhombus into two parallelograms.

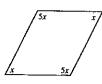
1 Find the value of the pronumeral in each of the following.

(a)

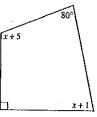




Find the value of the pronumeral in each of the following.
(a)



(b)

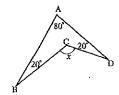


Mark any axes of symmetry on this rhombus.

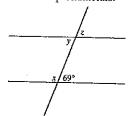


- Amanda built a kite. The angle at the top of the kite is two times larger than the angle at the tail. The angles on the side are 78°.
 - (a) Draw a diagram of Amanda's kite.

- (b) Find the angle at the tail.
- Find the size of x in this concave figure.



Find the value of the pronumerals.



7	Are the following statements true or false?
	. /
	a/b
	c/d e/i

- (a) Angles a and d are alternate.
 (b) Angles c and f are corresponding.
 (c) Angles b and f are co-interior.
- Find the value of the pronumerals.

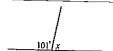


- Find the supplement of:
 (a) 110°
 (b) 91°
 (c) 75°
- Find the complement of:

 - (a) 5° (b) 24° (c) 58°

Name:

In each of the following, find the size of the pronumeral(s).



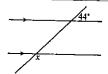
- A 79°
- 101° В
- C 259°
- D 281°



- 60°
- 120°
- 180°
- . D 360°



- 120° Α
- B 60°
- С 30°
- Ð 15°



- A B C 44°
- 136°
- 224°
- 316°



- A $x = 60^{\circ}, y = 65^{\circ}$ B $x = 55^{\circ}, y = 60^{\circ}$ C $x = 65^{\circ}, y = 60^{\circ}$ D $x = 55^{\circ}, y = 65^{\circ}$



- A 112.5°
- 45°
- B C 67.5°
- D 22.5°



- A 10° B 40° C 50°

- D 60°



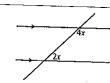
15° A 30° В C 45° . D 105°



A 15° 25° \mathbf{B}

- C30°
- D 60°

10



A 30°

- 60°
- B C 120°
- D 180°

All Multiple Choice

This diagram shows a triangle that is:



- obtuse and right angled acute and scalene obtuse and isosceles scalene
- This diagram shows a triangle that is:



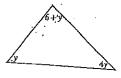
- acute and scalene
- В obtuse and isosceles
- scalene
 - right angled and scalene
- The value of the pronumeral x is:



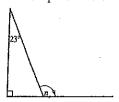
30° 60° 90° 120° ANSWERS

Name: Krongosofou

The value of the pronumeral y is:



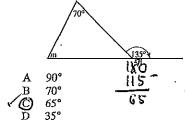
- 44° 32°
- The value of the pronumeral n is:



- 23°
- 90°
- - 113° 167°
- 180-113 =67

180-67

The value of the pronumeral m is:



A quadrilateral with all sides equal in length is called a:

A rectangle parallelogram square kite

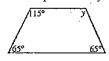
A quadrilateral with two pairs of adjacent sides that are equal is called a:

parallelogram

square

kite trapezium

The value of the pronumeral y is:



115°

130° C 230° D

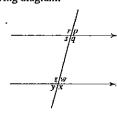
The value of the pronumeral x is:



45° 55°

90°

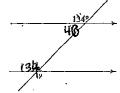
Questions 11 and 12 refer to the following diagram;



11 State which angle is co-interior to angle s.

The angle which is vertically opposite to r is:

13



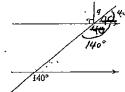
The value of the pronumeral w is:

46° 134°

150°

 \mathfrak{D} 169°

14



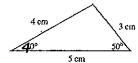
The value of the pronumeral q is:

40° 50° 90°

Ð 120°

- The shape above is best described as: (A) a triangle with angles 60° and 40° and side between them of length 2 cm
- B a triangle with angles 60° and 60° and side between them of length 4 cm
- C a triangle with angles 40° and 80° and side between them of length 3 cm
- D a triangle with angles 80° and 40° and side between them of length 3 cm

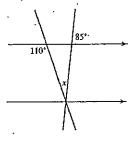
16



The shape above is best described as:

- A a triangle with side lengths 3 cm and 5 cm with an angle 40° between them
- B a triangle with side lengths 4 cm and 3 cm with an angle 50° between them
- C a triangle with side lengths 5 cm and 5 cm with an angle 50° between them
- a triangle with side lengths 4 cm and 5 cm with an angle 40° between them.

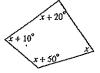
17



The value of the pronumeral x is:

- 70°
- 85° В
- 50°
- 25°

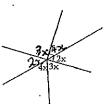
18



Which of the following statements is true?

- $x + 50^{\circ} = x + 20^{\circ}$
- $4x + 80^{\circ} = 360^{\circ}$
- C $x = x + 10^{\circ}$
- D $4x = 180^{\circ}$

19



The value of the pronumeral x is:

- 20°

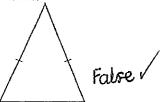
20 /A rectangle can be best described as:

- A square with uneven sides
- A parallelogram with a right angle
- \mathbf{C} A quadrilateral
- A rhombus with a right angle.

G	e	on	1e	tı	y

Name:	

Are the following statements true or false?
(a) The triangle is both right angled and scalene.



The triangle is both obtuse and isosceles.



Draw a triangle that is both:

(a) acute and equilateral



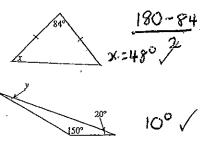
acute and isosceles.



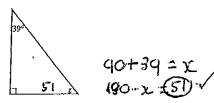
· Find the value of the pronumeral in each triangle.

(a)

(b)

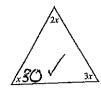


(c)

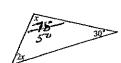


Find the value of the pronumeral in each triangle.

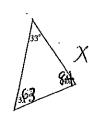
(a)



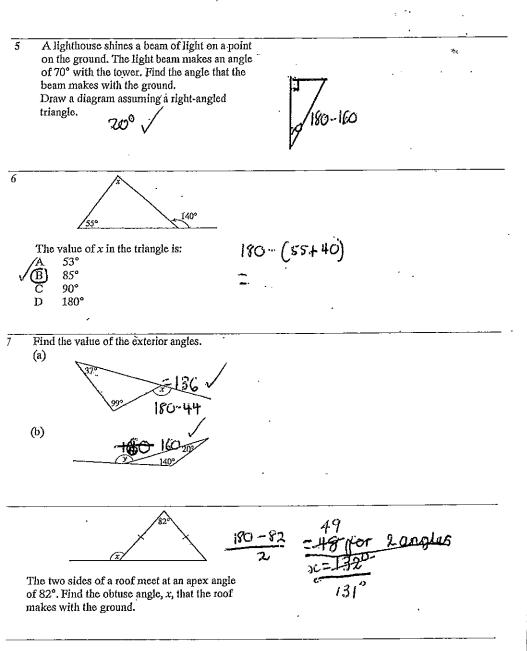
(b)



(c)



7x +33 = 180 7x = 147



(a) Draw a shape with 4 sides where there is		}
only one pair of parallel sides.	,	
	Trapo	ziom.
(b) How would you best describe this shape? A shape with I parallel sudden	e and is a para	Velogran
Draw the solution to each of the following.		• •
(a) With one line divide a square into two	•	
rectangles.		
rectangles,	•	

10

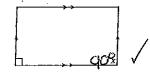
(b) With one line divide a rhombus into two

parallelograms.

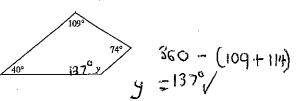
Name:

1 Find the value of the pronumeral in each of the following.

(a)



(b)

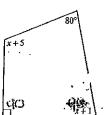


2 Find the value of the pronumeral in each of the following.

(a)

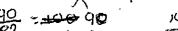


(b)



2 1 2 4 80490 = 36

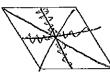
qo+80 =170



1 = 184

1 = 92

3 Mark any axes of symmetry on this rhombus.



2 oxes of symmetry only

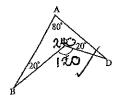
- 4 Amanda built a kite. The angle at the top of the kite is two times larger than the angle at the tail. The angles on the side are 78°.
 - (a) Draw a diagram of Amanda's kite.



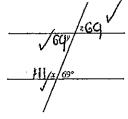
(b) Find the angle at the tail.



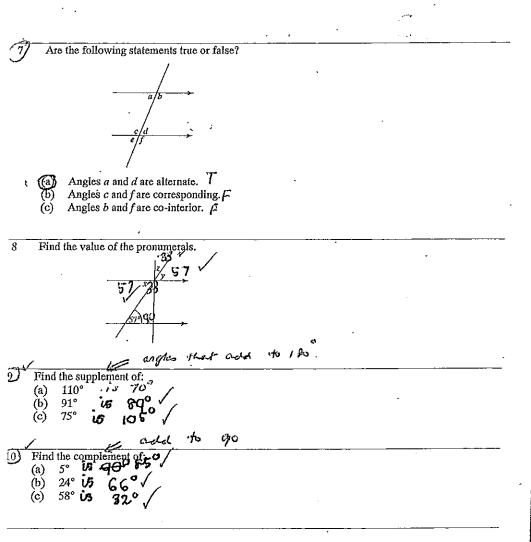
Find the size of x in this concave figure.



6 Find the value of the pronumerals.



声



Geometry	Name:	······································
In each of the following, find the size of the pronumeral(s).		
1 101 ¹ /x 101 ¹ /x C 259°		
C 259° D 281°		
2 60 120		
A) 60° B 120° C 180° D 360°		
3	· · · · · · · · · · · · · · · · · · ·	
A 120° 60° C 30° D 15°		

