## **GRE Quant Foundation Assessment Test** (Geometry)

Total points 34/44

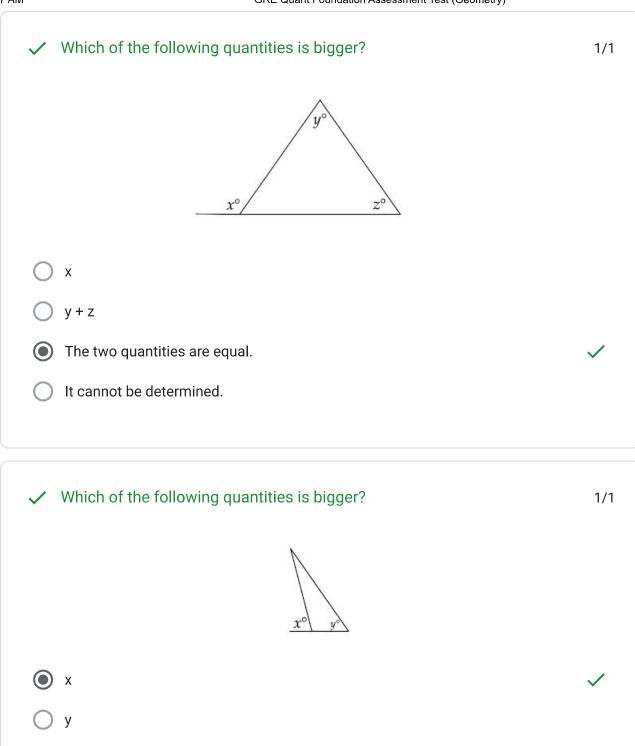


This is an assessment designed to assess your GRE Quant Foundation knowledge. None of the questions are tricky. None of the questions are puzzles. They solely test knowledge.

Calculators: You can use a calculator but it has to be one of those crappy ones like the one on your phone when you turn it vertically. Or the one on the ETS website in the PowerPrep exams. Or https://www.gregmat.com/tools/calculator

Email * irfanshuvo88@gmail.com	
A line segment extends infinitely in two directions.	1/1
<ul><li>True</li><li>False</li></ul>	<b>✓</b>
An obtuse angle is any angle with a measure greater than 90°.	1/1
<ul><li>True</li><li>False</li></ul>	<b>✓</b>

A polygon is a closed figure with at least three sides.	1/1
True	<b>✓</b>
○ False	
✓ If lines m and n are parallel, which of the following quantities is bigger?	1/1
$m$ $x^{\circ}$	
○ x	
<b>О</b> у	
The two quantities are equal.	<b>✓</b>
It cannot be determined.	



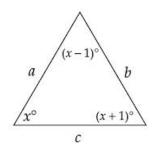
The two quantities are equal.

It cannot be determined.

✓ What is the sum of all of the interior angles of a polygon with 11 side.	es? 1/1
1620	<b>✓</b>
★ What is the measure of each interior angle of a hexagon?	0/1
O 108°	
● 120°	×
O 144°	
It cannot be determined.	
Correct answer	
It cannot be determined.	
✓ What is the measure of each interior angle in degrees of a regular de (10-sided polygon)?	ecagon 1/1
144	<b>✓</b>

✓ Which of the following quantities is larger?	1/1
The sum of the exterior angles of a triangle.	
The sum of the exterior angles of a 100-sided polygon.	
The two quantities are equal.	<b>~</b>
It cannot be determined.	

✓ Given the picture below, which of the following is correct? 1/1

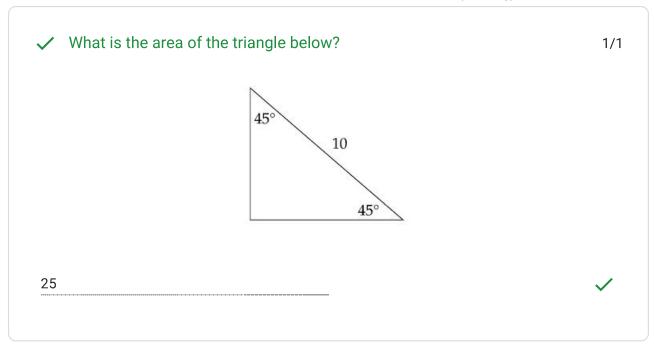


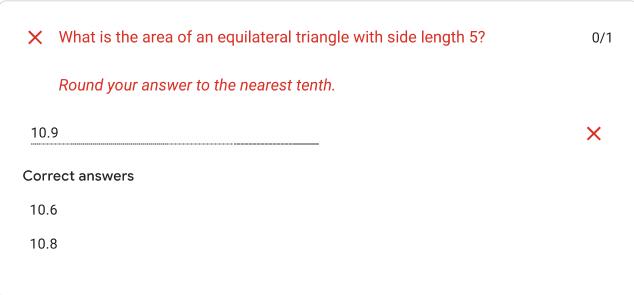
- a > b > c
- a > c > b
- b > a > c
- b>c>a
- c > b > a
- c > a > b

If two sides of a triangle are 4 and 7 respectively, then the length of the third side could be which of the following?	ne 1/1
Select all that apply.	
_ 2	
3	
5	<b>✓</b>
8	<b>✓</b>
10	<b>✓</b>
<u> </u>	
<u> </u>	
★ A triangle has a height of 7 and a base of 3. What is its area?	0/1
21/2	×
Correct answer	
10.5	

<b>~</b>	Which of the following scenarios correctly identifies two <b>congruent</b> triangles?	1/1
	Select all that apply.	
<b>✓</b>	SSS	<b>✓</b>
<b>~</b>	SAS	<b>✓</b>
	AAA	
~	ASA	<b>✓</b>
<b>✓</b>	AAS	<b>✓</b>
	SSA	
×	A right triangle has side lengths of 3 and 4. What is the length of the third side?	0/1
•	5	×
0	It cannot be determined.	
Corr	ect answer	
•	It cannot be determined.	
<b>/</b>	A right triangle has a hypotenuse of 15 and one side length of 8. What is the length of the third side?	1/1
	Round your answer to the nearest tenth.	
12.7	7	<b>✓</b>

✓ If the perimeter of a right triangle is 12, and every side is an integer, where the triangle's area?	nat is 1/1
6	<b>✓</b>
✓ A Pythagorean triplet has a perimeter of 30. What is the length of its hypotenuse?	1/1
13	<b>✓</b>
✓ What is the area of the triangle below?	1/1
Round your answer to the nearest tenth. $60^{\circ} \qquad 10$ $30^{\circ}$	
21.7	<b>✓</b>





✓ Which of the following is/are <u>always</u> a parallelogram with four equal side	s? 1/1
Select all that apply.	
Square	<b>✓</b>
Rectangle	
Parallelogram	
Rhombus	<b>✓</b>
Trapezoid	
✓ Adjacent angles in a parallelogram <u>always</u> add up to 180°.	1/1
True	<b>✓</b>
○ False	
✓ If the area of the smallest triangle in the diagram below is 8, what is the area of the largest triangle?	1/1
$\frac{1}{x}$ $\frac{2x}{3x}$	
72	<b>✓</b>

★ Which of the following quantities is larger?	0/1
x° L	
O x	
У	
The two quantities are equal.	×
It cannot be determined.	
Correct answer	
It cannot be determined.	
What is the area of a trapezoid with a smaller base of 3, a larger base and a height of 7?	e of 6, 0/1
15.75	×
Correct answer	
31.5	

✓ What is the area of a regular hexagon with a side length of 8?	1/1
Round your answer to the nearest integer.	
166	×
Correct answers	
163	
166	
Correct Answer	
All of the polygons below have the same perimeter. Which has the largest area?	1/1
A rectangle with a length that is greater than its width	
A square	<b>✓</b>
A rhombus with one angle not equal to 90°	
A parallelogram with one angle measuring 80°	
★ If you were given 100 feet of rope and asked to use the rope to form a closed shape, what is the largest area you could enclose (in square feet)?	0/1
Round your answer to the nearest integer.	
625	×
Correct answers	
796	
795	

<ul> <li>✓ What are two commonly used estimates for π?</li> <li>□ 3</li> <li>□ 3.1</li> <li>✓ 3.14</li> </ul>	1/1
3.1	
3.14	
	<b>✓</b>
✓ 22/7	<b>✓</b>
✓ If C is the center of the circle, what is the length of arc DEF?	1/1
Round your answer to the nearest hundredth.	
$C \stackrel{4}{\stackrel{100^{\circ}}{\longrightarrow}} E$	
6.98	<b>✓</b>
✓ If C is the center of the circle, what does x equal?	1/1
C ≥ 110°	
55	<b>✓</b>

<b>✓</b>	If a circle has a radius of 12, what is the area of a sector of that circle with a central angle of 45°?	1/1
	Round your answer to the nearest tenth.	
56.	.5	<b>✓</b>
×	Arc DEF is equal to the radius of the circle with center C.	0/1
	Which of the following quantities is bigger?	
	$C < x^{\circ}$ $E$	
	) x	×
0	) 60	
0	The two quantities are equal.	
0	It cannot be determined.	
Corr	rect answer	
•	60	

★ A quadrilateral is inscribed in a circle of radius 6. What is the largest possible area of this quadrilateral?	···/1
36	×
Correct answer	
72	
✓ Which of the following 3D shapes are <b>NOT</b> tested on the GRE?	
Cube	
Rectangular Solid	
Sphere	<b>✓</b>
Right Cylinder	
Cone	<b>✓</b>
Pyramid	<b>✓</b>
Feedback  This question has been zero-scored, as the question as written is misleading. What we meant is that while these shapes COULD come on the test, you won't be expected to the formulas. They'll provide it for you.	
✓ What is the volume of a cube with side length 8?	1/1
512	<b>~</b>

<b>✓</b>	What is the surface area of a cube with side length 10?	1/1
600		<b>✓</b>
<b>✓</b>	What is the volume of a rectangular solid with side lengths of 3, 4, and 5?	1/1
60		<b>✓</b>
<b>✓</b>	What is the surface area of a rectangular solid with side lengths 6, 8, and 10?	1/1
376		<b>✓</b>
<b>✓</b>	A cube's volume is always greater than its surface area.	1/1
0	True	
•	False	<b>✓</b>

<b>/</b> '	What is the length of the longest diagonal of a cube of side length 7?	1,
ı	Round your answer to the nearest tenth.	
12.1		×
Corre	ct answers	
11.9		
12.1		
	What is the length of the longest diagonal of a rectangular solid with side lengths 5, 9, and 13?	1/
ı	Round your answer to the nearest tenth.	
16.6		<b>✓</b>
	What is the volume of a right cylinder with a radius of 4 and height of 10?	1/
ı	Round your answer to the nearest integer.	
503		<b>/</b>

×	What is the surface area of a right cylinder with a radius of 6 and a height of 6?	0/1
	Round your answer to the nearest integer.	
24	9	×
Cori	rect answers	
452	2	
453	3	

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