

**#1 Geometry – Hustle  
National MA© 2008**

**Find the lateral area of a right circular cone if its base has an area of  $25\pi$  and its volume is  $100\pi$ .**

**Answer : \_\_\_\_\_**

**Round 1 2 3 4 5**

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**#2 Geometry – Hustle**  
**National MA© 2008**

**Find the length of the tangent segment  
from (3,7) to the circle**

$$(x + 4)^2 + (y - 1)^2 = 25.$$

**Answer :** \_\_\_\_\_

**Round 1 2 3 4 5**

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**#3 Geometry – Hustle  
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**Find the length of one of the shorter diagonals in a regular hexagon with side length 8.**

**Answer : \_\_\_\_\_**

**Round 1 2 3 4 5**

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**#4 Geometry – Hustle**  
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**A line through the points (3,1) and (5, $a$ ) has a positive slope and makes a  $60^\circ$  angle with the  $x$ -axis. Find the value of  $a$ .**

**Answer : \_\_\_\_\_**

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**#5 Geometry – Hustle  
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**One side of an equilateral triangle is 10 cm longer than a side of a smaller equilateral triangle. The sum of the perimeters of the triangles is 186 cm. How long is each side of the larger triangle in centimeters?**

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**Round 1 2 3 4 5**

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**#6 Geometry – Hustle**  
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**The surface area of a cardboard box with rectangular sides and a square base is 2800. If the box has a height of 25, what is the volume of the box?**

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**Round 1 2 3 4 5**

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**#7 Geometry – Hustle  
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**Find the area of a square that is inscribed  
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**#8 Geometry – Hustle**  
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$\triangle ABC$  is a right triangle with hypotenuse  $\overline{BC}$ . If D and E are midpoints of sides  $\overline{AC}$  and  $\overline{BC}$ , respectively, and  $m\angle B = 30$  and  $AC = 20$ , find the perimeter of  $\triangle CDE$ .

Answer : \_\_\_\_\_

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**#9 Geometry – Hustle**  
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**Determine the exact perimeter of the triangle with vertices**

$$A(6,4), B(-3,1), C(9,-5).$$

**Answer :** \_\_\_\_\_

**Round 1 2 3 4 5**

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**#10 Geometry – Hustle**  
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Trapezoid ABCD has  $\overline{AB} \parallel \overline{CD}$  with  $\overline{AB}$  being the longer base and with  $CD = 12, AD = 10, CB = 17$ , the length of the altitude is 8. Find the area of the trapezoid.

Answer : \_\_\_\_\_

Round 1 2 3 4 5

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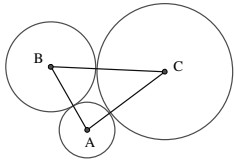
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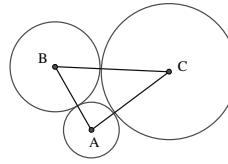


Each of the circles with centers A, B, and C is tangent to the other two.  
If  $AB = 10$ ,  $AC = 14$ ,  $BC = 18$ , find the radius of circle A.

Answer : \_\_\_\_\_

Round 1 2 3 4 5

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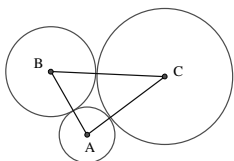


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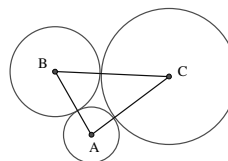


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**#12 Geometry – Hustle**  
**National MA© 2008**

In  $\triangle ABC$ ,  $\angle C$  is a right angle,  $AC = 8$ ,  
and the length of the median to the  
hypotenuse is 6. Find the length of  $\overline{CB}$ .

Answer : \_\_\_\_\_

Round 1 2 3 4 5

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Round 1 2 3 4 5

**#13 Geometry – Hustle  
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**At 2:15 A.M., find the degree measure of the smaller angle formed by the hour and minute hands of a clock.**

**Answer : \_\_\_\_\_**

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**#14 Geometry – Hustle**  
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**What is the most specific name for the quadrilateral formed by joining, in order, the midpoints of the sides of a rectangle?**

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**Round 1 2 3 4 5**

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**#15 Geometry – Hustle**  
**National MA© 2008**

**Find the area of a sector of a circle that intercepts a  $30^\circ$  arc when the radius is  $3\sqrt{2}$ . Express your answer in terms of  $\pi$ .**

**Answer : \_\_\_\_\_**

**Round 1 2 3 4 5**

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**#16 Geometry – Hustle**  
**National MA© 2008**

**A triangle and a trapezoid have equal areas and equal altitudes. If the base of the triangle is 18 inches, then find the median of the trapezoid.**

**Answer : \_\_\_\_\_**

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**#17 Geometry – Hustle**  
**National MA© 2008**

**The base of a right rectangular solid is a rectangle whose sides are 2 and 6. If the diagonal of the solid is 11, find the volume of the solid.**

**Answer : \_\_\_\_\_**

**Round 1 2 3 4 5**

**#17 Geometry – Hustle**  
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**#18 Geometry – Hustle**  
**National MA© 2008**

The areas of two similar triangles are 96 and 6. If the perimeter of the larger triangle is 48, find the perimeter of the second.

Answer : \_\_\_\_\_

Round 1 2 3 4 5

**#18 Geometry – Hustle**  
**National MA© 2008**

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Round 1 2 3 4 5

**#19 Geometry – Hustle  
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**Find the length of the altitude in an equilateral triangle that has an area of  $\sqrt{3}$ .**

**Answer : \_\_\_\_\_**

**Round 1 2 3 4 5**

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**#20 Geometry – Hustle**  
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**Given regular octagon ABCDEFGH. Find the measure of the acute angle formed when  $\overline{AD}$  and  $\overline{CG}$  intersect.**

**Answer : \_\_\_\_\_**

**Round 1 2 3 4 5**

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**Round 1 2 3 4 5**

**#21 Geometry – Hustle**  
**National MA© 2008**

**Given right  $\triangle ABC$  with right angle at B. The altitude to the hypotenuse is drawn with D on  $\overline{AC}$ . If  $BC = 6, DC = 4$ , find the length of  $\overline{AB}$ .**

**Answer : \_\_\_\_\_**

**Round 1 2 3 4 5**

**#21 Geometry – Hustle**  
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**Round 1 2 3 4 5**

**#22 Geometry – Hustle**  
**National MA© 2008**

A chord of a circle has length 12. The chord is 7 units from the center of the circle. Find the circumference of the circle in terms of  $\pi$ .

Answer : \_\_\_\_\_

Round 1 2 3 4 5

**#22 Geometry – Hustle**  
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A chord of a circle has length 12. The chord is 7 units from the center of the circle. Find the circumference of the circle in terms of  $\pi$ .

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**#23 Geometry – Hustle**  
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Angles A and B are complementary. Their supplements differ by  $64^\circ$ . Find the measure of the smaller angle in degrees.

Answer : \_\_\_\_\_

Round 1 2 3 4 5

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Answer : \_\_\_\_\_

Round 1 2 3 4 5

**#24 Geometry – Hustle**  
**National MA© 2008**

The longest diagonal of a regular hexagon has a length of 8. Find the area of the hexagon.

Answer : \_\_\_\_\_

Round 1 2 3 4 5

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**#25 Geometry – Hustle**  
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In isosceles trapezoid ABCD with  $\overline{AB}$  the smaller base,  $AB = 4, DC = 16$  and the length of the altitude is 6. Find the absolute value of the difference of the upper base angle and the lower base angle.

Answer : \_\_\_\_\_

Round 1 2 3 4 5

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