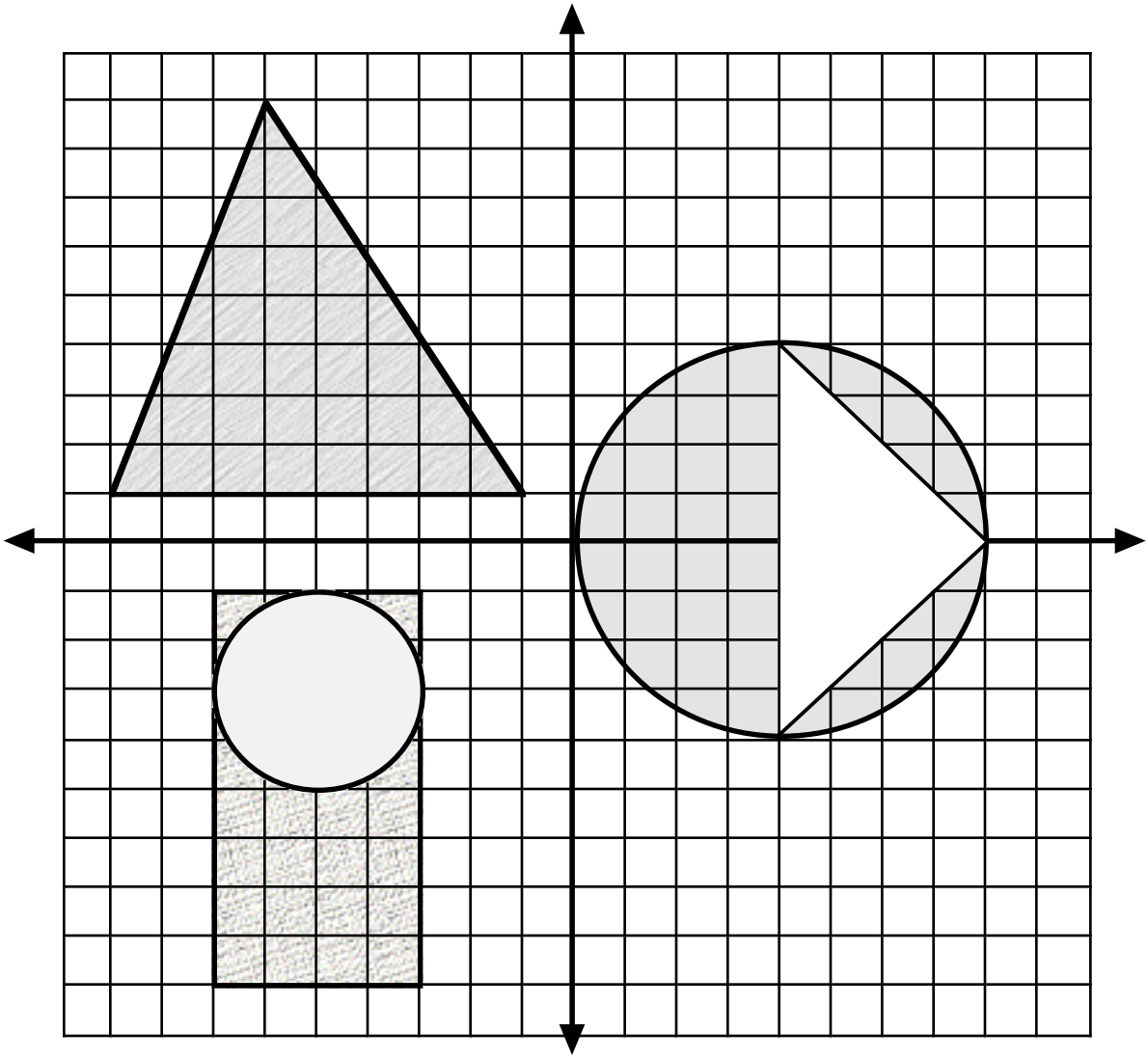
Graphing on the Coordinate Plane
Problem Set 2.3 Name _____

Label the quadrants and axes



Questions: Separate sheet of paper

- Find the exact area of the geometric figure in quadrant II
- Find the exact circumference and area of the figures in Quadrants I and Quadrant IV.

  Develop a numerical expression that will show the exact area inside the circle but outside the triangle.
- Develop a numerical expression for the area inside the rectangle but outside the circle in Quadrant III

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Real Numbers Rational (can be expressed as a fraction)
Irrational (cannot be expressed as a fraction) π 28

$\sqrt{}$ square root "A square with an area of ____. What is the length of a side?"

perfect square roots between 1 and 225 (15)
210 square roots between 1 - 225 are irrational

$\sqrt{57}$ between $\sqrt{}$ and $\sqrt{}$

$\sqrt{187}$ $\sqrt{}$ and $\sqrt{}$

Absolute Value (distance from zero, always +)

$|m| = 4$ two equations to solve $m = 4$ OR $m = -4$

$|x + 5| = 7$ two equations to solve $x + 5 =$ OR $x + 5 =$

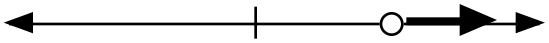
$|2y - 3| = 9$ two equations to solve

Meaning of '-' sign **(opposite of)**

Expression $2x + 3$ **Equation** $2x + 3 = 11$ **Inequality** $2x + 3 > 11$

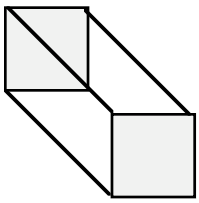
coefficient variable term variable constant

graphical representation



Surface Area

The face of this right rectangular prism is 5 cm by 6 cm.
The depth is 10 cm. Find the total surface area



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Problem Set 2.3 Name _____

Circles

A cement truck's wheels are 4 feet in diameter. If the wheels make 12 complete revolutions, approximately how many yards has the truck traveled ?

Problem Solving

The length rectangle is 3 feet more than twice the width. If the perimeter is 54 inches, what is the length of one side ?

Percent of increase/decrease

Tickets for the Z Z To concert were reduced from $ 50 to $ 39 . By what percent were the tickets reduced.

I mistakenly divided a number by 5 when I should have multiplied it by 5. Find my percent of error?

Simplify $-3-(-5)-2+(-1)-(-4)-(-2a)-(-1)-2a$

Functions Input = Output Domain - Range restrictions on domain

Problems

$7\ 3/8 - 2\ 4/5$ $1\ 2/3 + 2\ 3/4 + 5/8$

$5\ 2/5 \bullet 5/11$ $6\ 3/4 \div 4/9$

Distributive property twice

$(2m + 3)(m + 4)$

$(2x + 5)(x - 4)$

Find 15% employing the 10% - 15% method

15% of 36 = 10% + 5% =