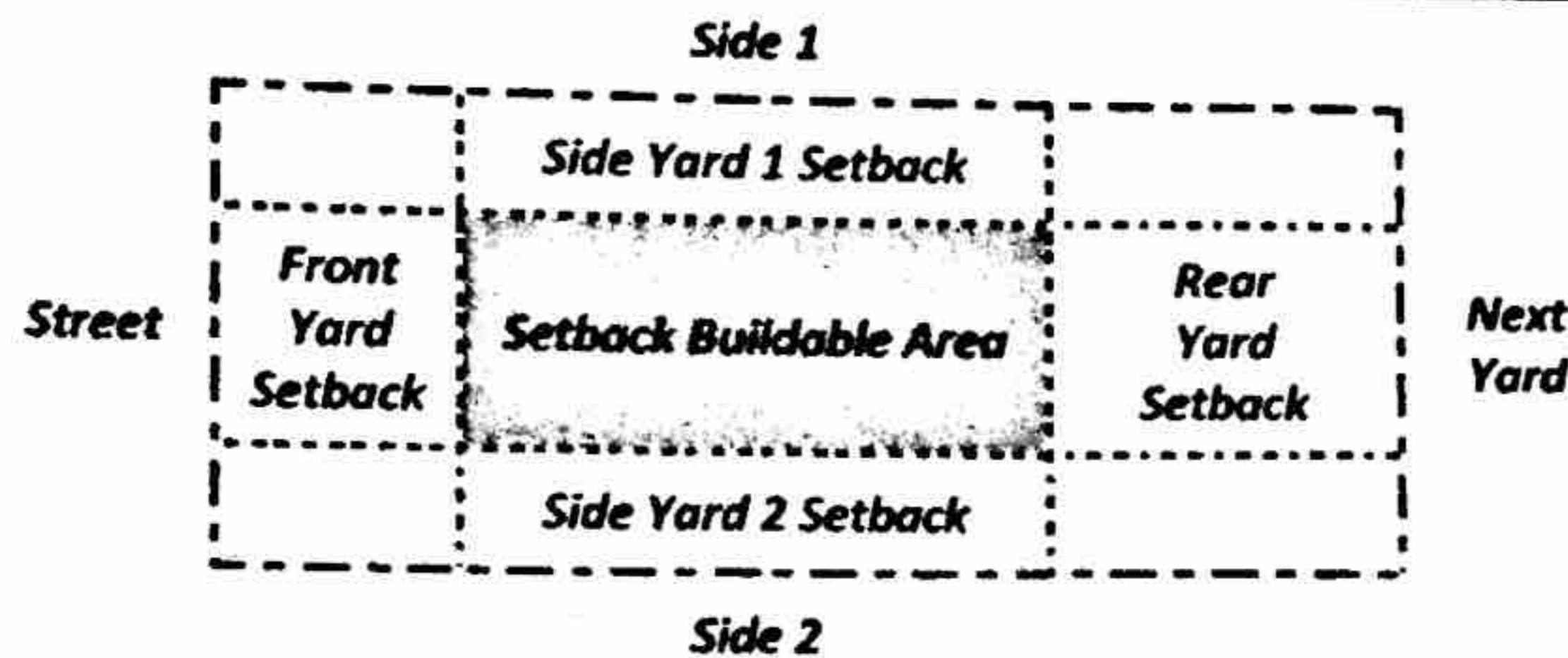


Name \_\_\_\_\_

## Worksheet #1 OSR

Directions: Answer all of the questions below based on the plan diagram provided.



Property size	150 feet deep x 100 feet wide
Front Setback	20 feet
Rear Setback	30 feet
Side 1 Setback	10 feet
Side 2 Setback	15 feet

1. What is the total square footage of the lot?

$$\text{AREA} = \text{LENGTH} \times \text{WIDTH}$$

$$15000 = 150 \times 100$$

2. After considering the setbacks what is the total buildable area?

$$150' - (20' + 30') = 150 - 50 = 100'$$

$$100' - (10' + 15') = 100 - 25 = 75'$$

$$\text{FOOTPRINT AREA} = 100' \times 75' = 7500$$

3. The property owner wishes to build a fence along three edges of the property including the two sides and the back? How long is the fence?

$$\text{PERIMETER} = 150' + 150' + 100' + 100' = 500'$$

4. If the Open Space Ratio (OSR) is 20 or 20% of the lot? What is the open space requirement?

$$\text{OSR} \times \text{LOT AREA}$$

$$.20 \times 15,000 = 3,000 \text{ sq ft}$$

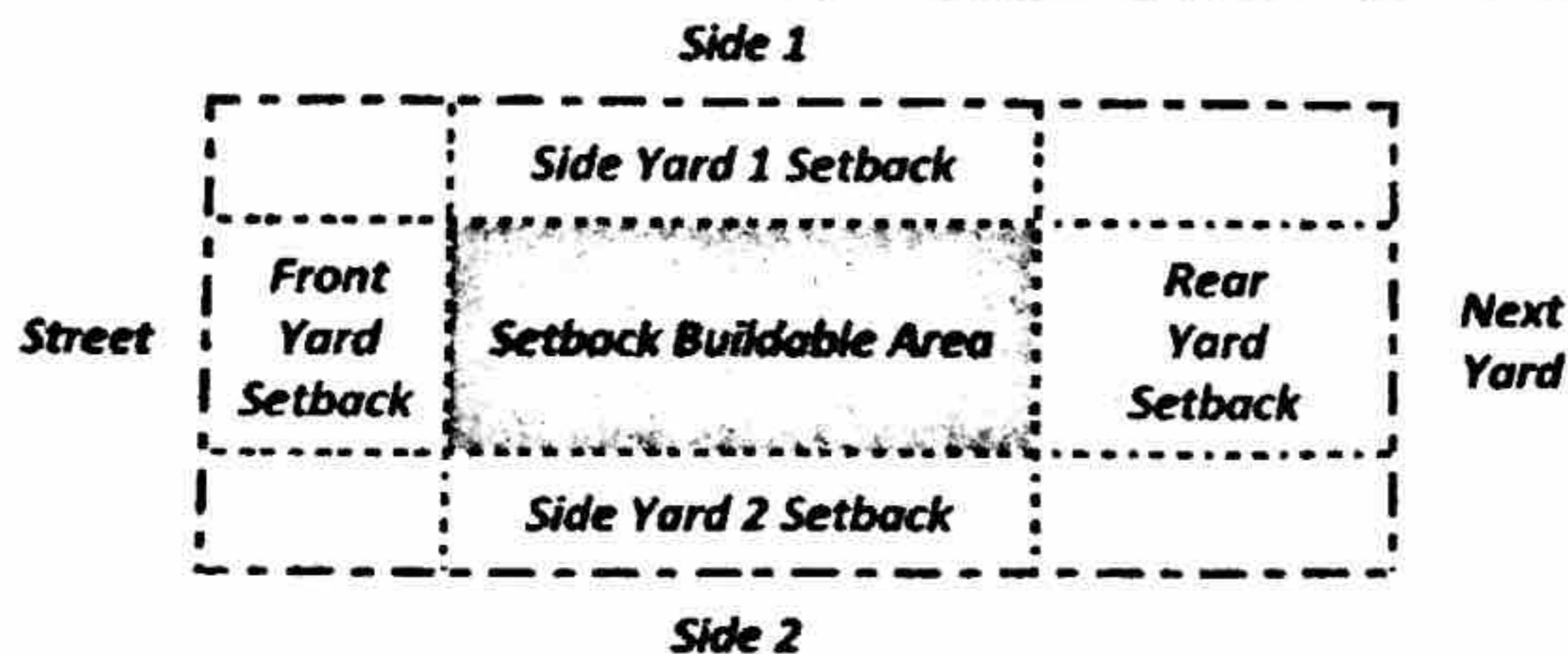
5. Considering the setbacks and the OSR above which of the two is more restrictive and what is the maximum allowable footprint of the building?

SETBACK IS BIGGER THAN THE OSR SO ALLOWABLE FOOTPRINT = 7,500

Name \_\_\_\_\_

## Worksheet #2

**Directions:** Answer all of the questions below based on the plan diagram provided.



Property size 250 feet deep x 120 feet wide

Front Setback 40 feet

Rear Setback 50 feet

Side 1 Setback 15 feet

Side 2 Setback 15 feet

1. What is the total square footage of the lot?

$$A = L \times W \rightarrow 250 \times 120 = 30,000$$

2. After considering the setbacks what is the total buildable area?

$$250 - (40 + 50) = 160 \quad \text{FOOTPRINT AREA} = 160 \times 90 = 14,400$$

$$120 - (30) = 90$$

3. The property owner wishes to build a fence along three edges of the property including the two sides and the back? How long is the fence?

$$250 + 250 + 120 = 620'$$

4. If the Open Space Ratio (OSR) is 35 or 35% of the lot? What is the open space requirement?

$$\text{OSR} \times \text{LOT AREA}$$

$$.35 \times 30,000 = 10,500 \text{ sq ft}$$

5. Considering the setbacks and the OSR above which of the two is more restrictive and what is the maximum allowable footprint of the building?

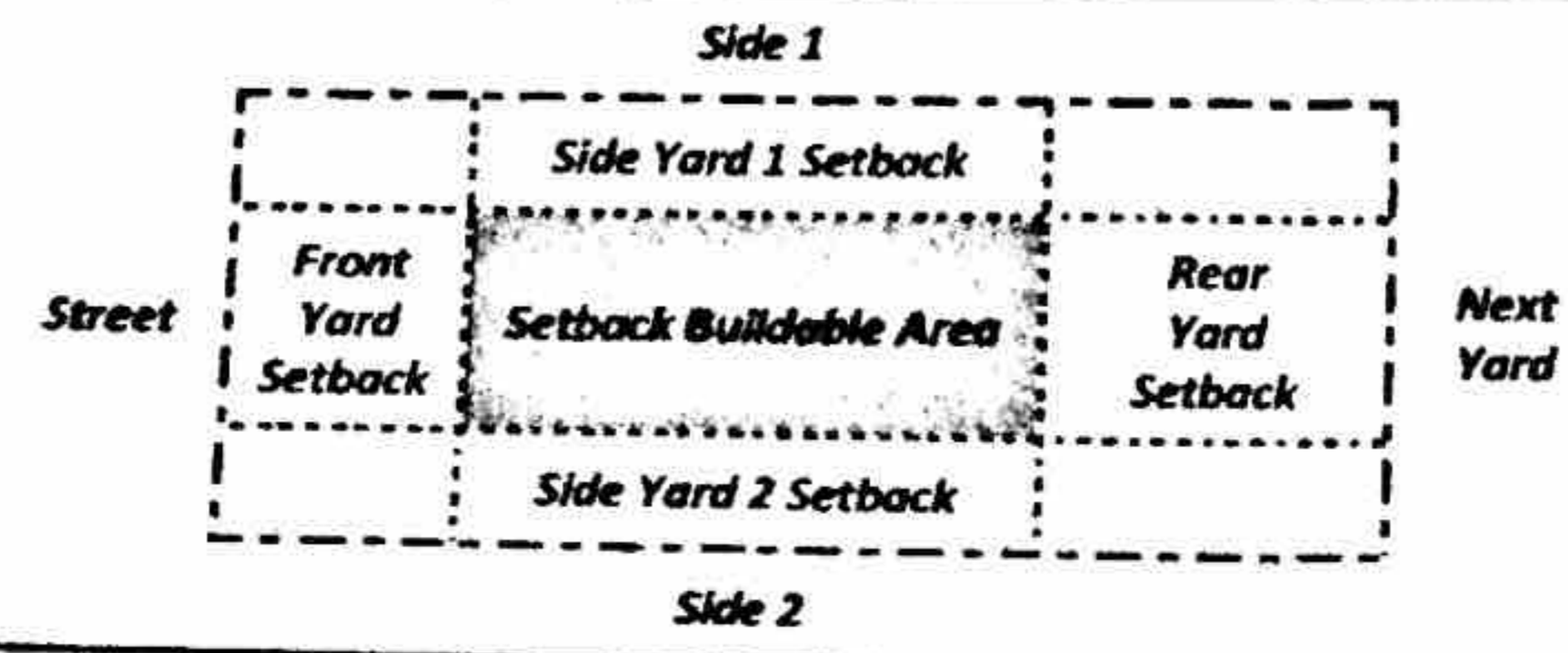
# City Polytechnic High School

## Inter-Academy Integrated Projects Trimester 1.0 Week 6.0 Day 2.0

Name \_\_\_\_\_

### Worksheet #3

Directions: Answer all of the questions below based on the plan diagram provided.



Property size	100 feet deep x 45 feet wide
Front Setback	10 feet
Rear Setback	15 feet
Side 1 Setback	5 feet
Side 2 Setback	5 feet

1. What is the total square footage of the lot?

$A = L \times W \rightarrow 100 \times 45 = 4,500$

2. After considering the setbacks what is the total buildable area?

$100 - (10 + 15) \rightarrow 100 - 25 = 75$   
 $45 - (10) \rightarrow 35 \quad 75 \times 35 = 2625$

3. The property owner wishes to build a fence along three edges of the property including the two sides and the back? How long is the fence?

$100' + 100' + 45 = 245'$

4. If the Open Space Ratio (OSR) is 50 or 50% of the lot? What is the open space requirement?

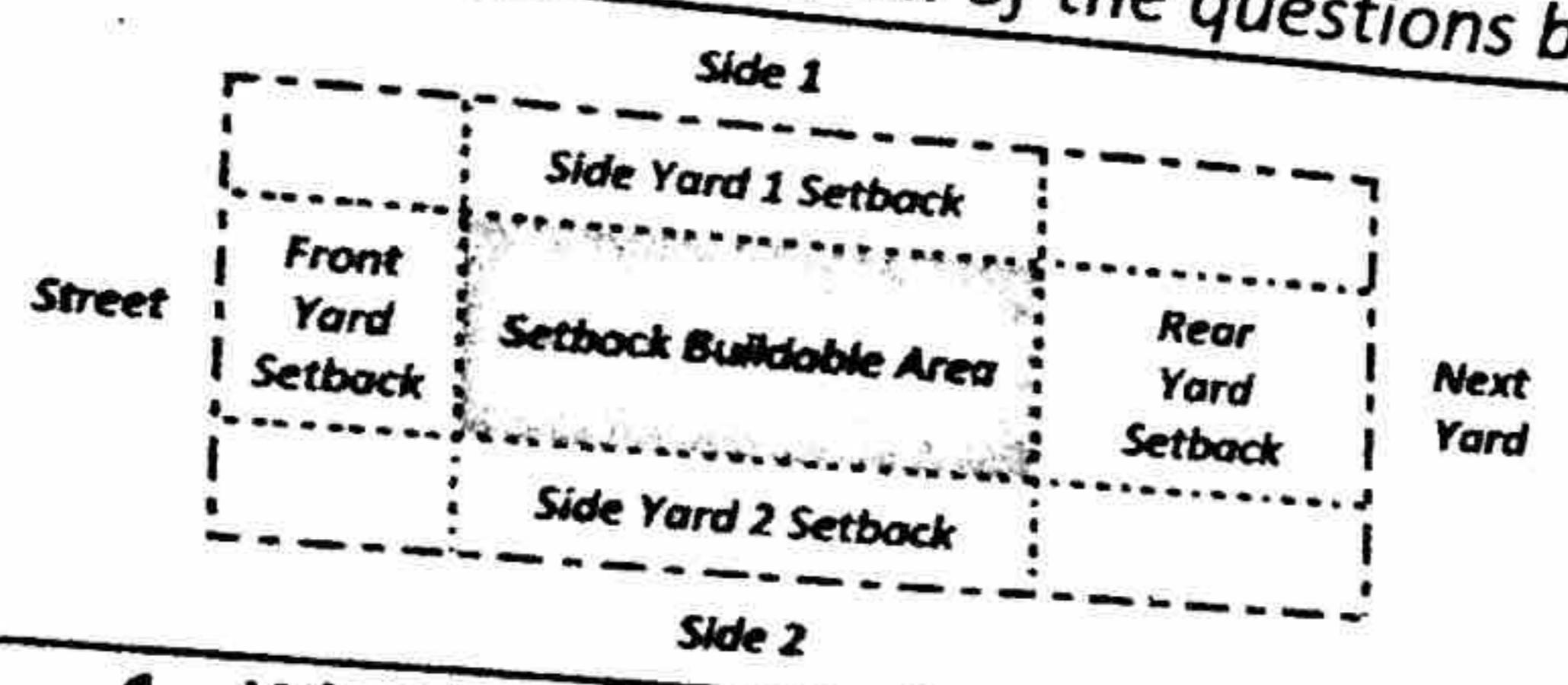
OSR x LOT AREA  
 $.5 \times 4,500 = 2250$

5. Considering the setbacks and the OSR above which of the two is more restrictive and what is the maximum allowable footprint of the building?

Name \_\_\_\_\_

Worksheet #4

Directions: Answer all of the questions below based on the plan diagram provided.



Property size	100 feet deep x 40 feet wide
Front Setback	15 feet
Rear Setback	20 feet
Side 1 Setback	10 feet
Side 2 Setback	5 feet

1. What is the total square footage of the lot?

$A = L \times W$   
 $100 \times 40 = 4,000$

2. After considering the setbacks what is the total buildable area?

$100 - (15 + 20) = 65$   
 $40 - 15 = 25$   
 $65 \times 25 = 1625$  ~~ft~~ FOOTPRINT AREA

3. The property owner wishes to build a fence along three edges of the property including the two sides and the back? How long is the fence?

$100 + 100 + 40 = 240'$

4. If the Open Space Ratio (OSR) is 30 or 30% of the lot? What is the open space requirement?

$30 \times 4,000 = 1200$  ~~ft~~ OSR

5. Considering the setbacks and the OSR above which of the two is more restrictive and what is the maximum allowable footprint of the building?

