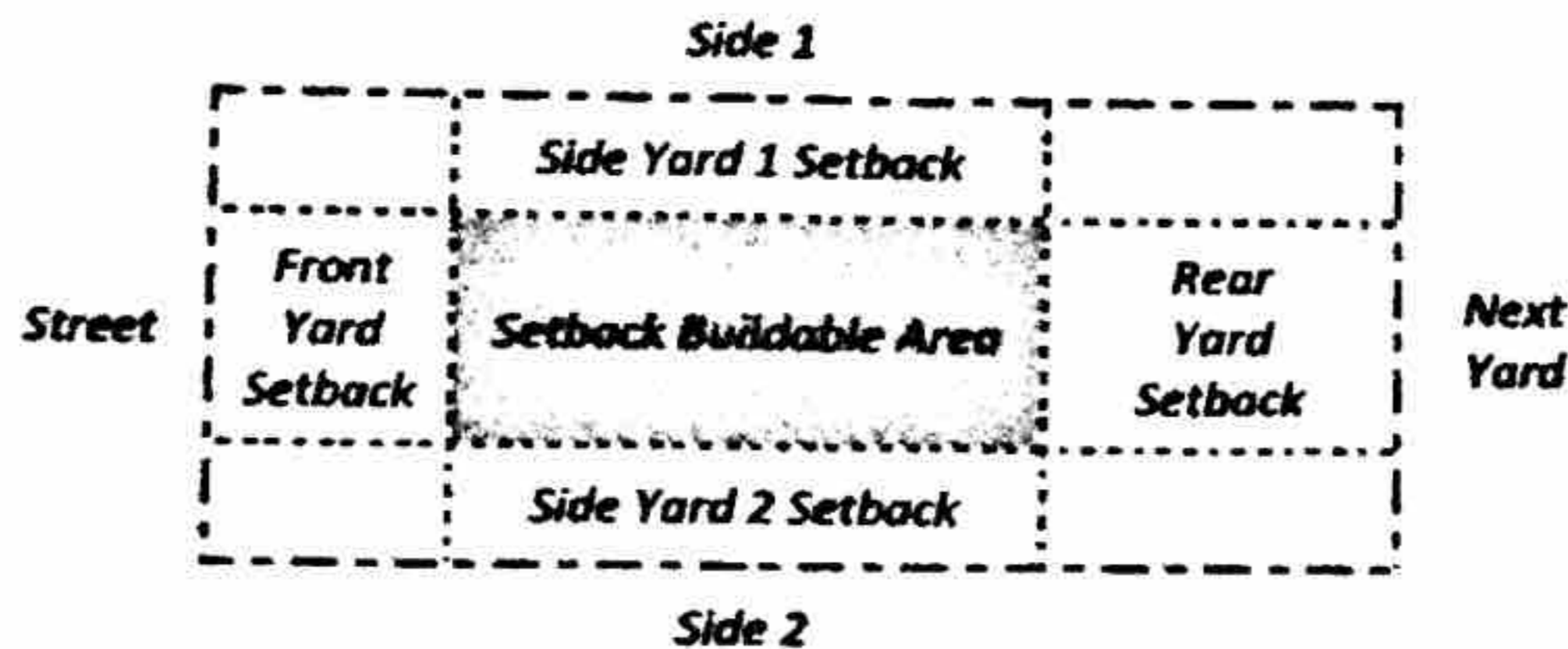


Name _____

FAR Worksheet #1

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? $AREA = LENGTH \times WIDTH$
 $150 \times 100 = 15,000 \text{ sq ft}$

2. After considering the setbacks what is the total buildable area?
 $150 - 50 = 100$
 $100 - 25 = 75$ → AFTER SETBACK
 $100 \times 75 = 7,500 \text{ sq ft}$

3. If the Floor Area Ratio (FAR) is 2, what is the allowable building area?
 $MAX \text{ BLDG AREA} = FAR \times LOT \text{ AREA}$
 $2 \times 15,000 \text{ sq ft}$
 $ALLOWABLE = 30,000 \text{ sq ft}$

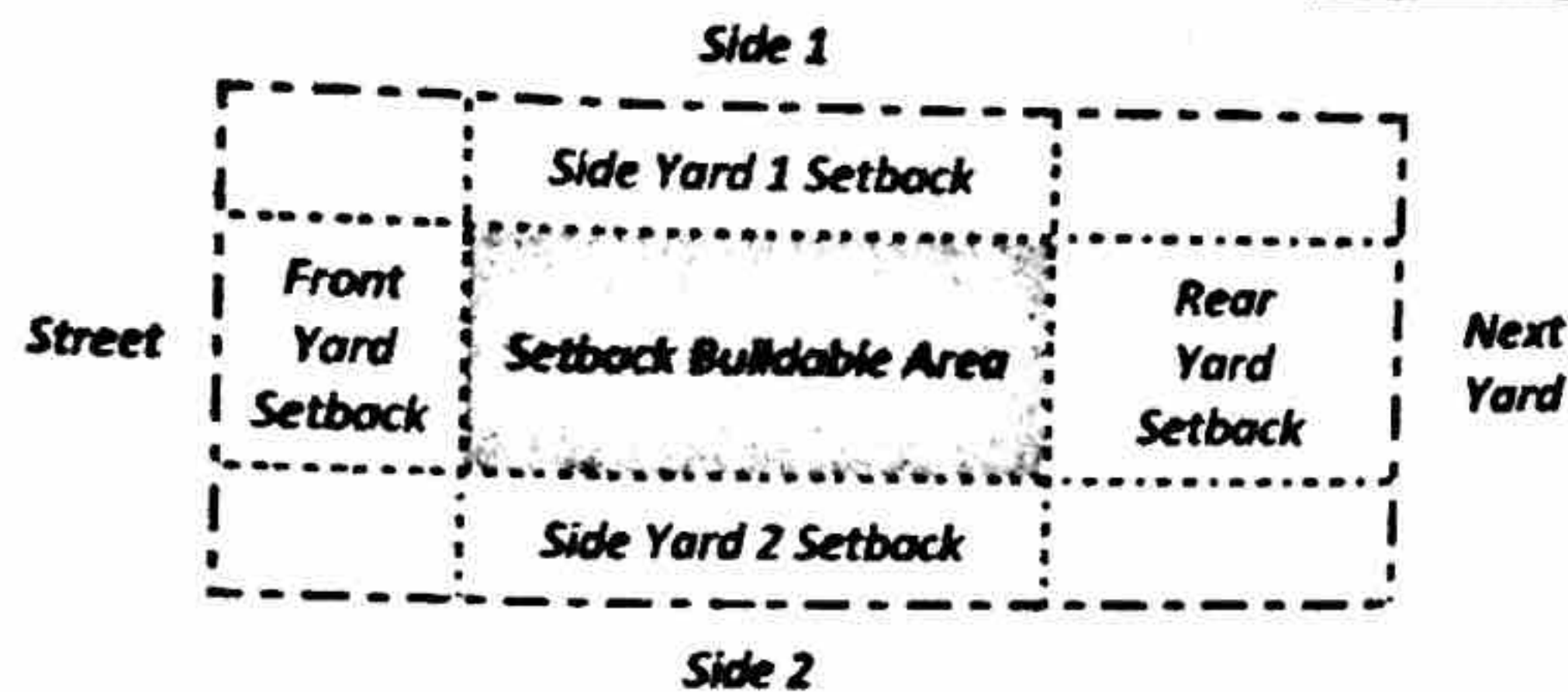
4. Based on the FAR of 2 and the buildable lot area after setbacks how tall is the building?
 $\# \text{ STORIES} = \frac{MAX \text{ BLDG AREA}}{FOOT PRINT}$
 $\frac{30,000 \text{ sq ft}}{7,500 \text{ sq ft}}$
 4 FLOORS

5. Based on the FAR of 4 and the buildable lot area after setbacks how tall is the building?
 $FAR = 4$
 $LOT \text{ AREA} = 15,000 \text{ sq ft}$
 $FOOT PRINT = 7,500 \text{ sq ft}$
 $LOT \text{ AREA} \times FAR = 15,000 \times 4 = 60,000$
 $\frac{MAX \text{ BLDG AREA ALLOWABLE}}{FOOT PRINT} = \frac{60,000}{7,500} = 8$

Name _____

FAR Worksheet #2

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



Property size	100 feet deep x 50 feet wide
Front Setback	0 feet
Rear Setback	30 feet
Side 1 Setback	0 feet
Side 2 Setback	12 feet

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

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

$$5000 \# = 100 \times 50$$

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

$$100 - 30 = 70 \quad \text{AFTER SETBACK}$$

$$50 - 12 = 38$$

$$70 \times 38 = 2660$$

3. If the Floor Area Ratio (FAR) is 2.5, what is the allowable building area?

$$\text{FAR} \times \text{LOT AREA} = \text{MAX BLDG AREA}$$

$$2.5 \times 5000 = 12500$$

4. Based on the FAR of 2.5 and the buildable lot area after setbacks how tall is the building?

$$\text{MAX BLDG AREA} / \text{FOOT PRINT AREA}$$

$$12500 / 2660 = 4.699 \approx 4.7$$

5. Based on the FAR of 6 and the buildable lot area after setbacks how tall is the building?

$$\text{FAR} = 2.5$$

$$\text{LOT AREA} = 5000 \#$$

$$\text{FOOT PRINT} = 2660 \#$$

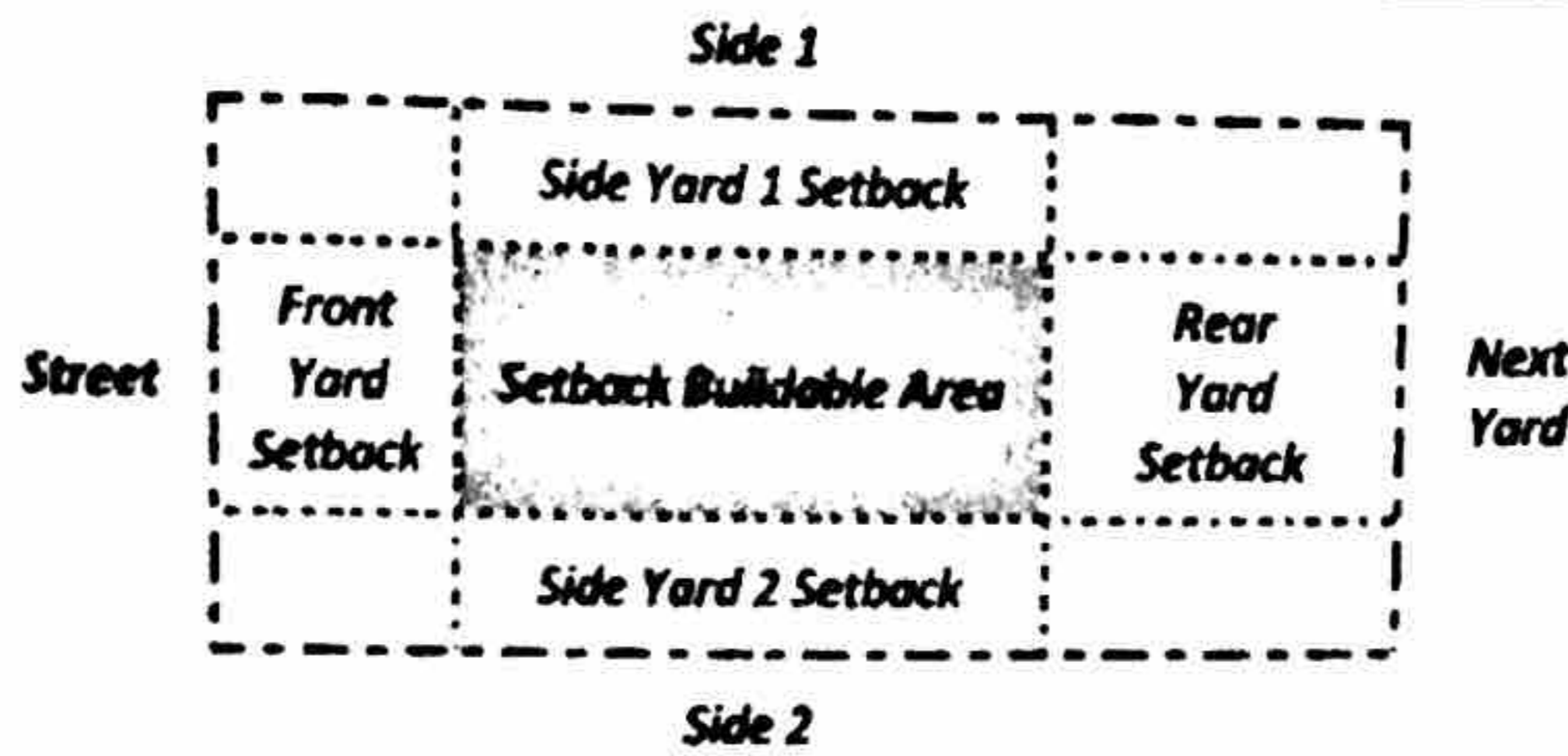
$$\text{LOT AREA} \times \text{FAR} = 5000 \times 2.5 = 12500$$

$$\text{MAX BLDG AREA ALLOWABLE} / \text{FOOT PRINT} = 12500 / 2660 = 4.8$$

Name _____

FAR Worksheet #3

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



Property size	220 feet deep x 120 feet wide
Front Setback	35 feet
Rear Setback	50 feet
Side 1 Setback	15 feet
Side 2 Setback	25 feet

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

$$A = L \times W$$

$$220 \times 120 = 26400 \text{ ft}^2$$

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

$$220 - 35 - 50 = 135$$

$$120 - 15 - 25 = 80$$

$$135 \times 80 = 10800$$

3. If the Floor Area Ratio (FAR) is 10, what is the allowable building area?

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

$$10 \times 26400 = 264,000 \leftarrow \text{MAX BLDG AREA}$$

4. Based on the FAR of 10 and the buildable lot area after setbacks how tall is the building?

$$\frac{\text{MAX BLDG AREA}}{\text{FOOTPRINT AREA}}$$

$$264,000 / 10,800 = 24.4$$

5. Based on the FAR of 6 and the buildable lot area after setbacks how tall is the building?

$$\text{FAR} = 10$$

$$\text{LOT AREA} = 26,400$$

$$\text{FOOTPRINT} = 10,800$$

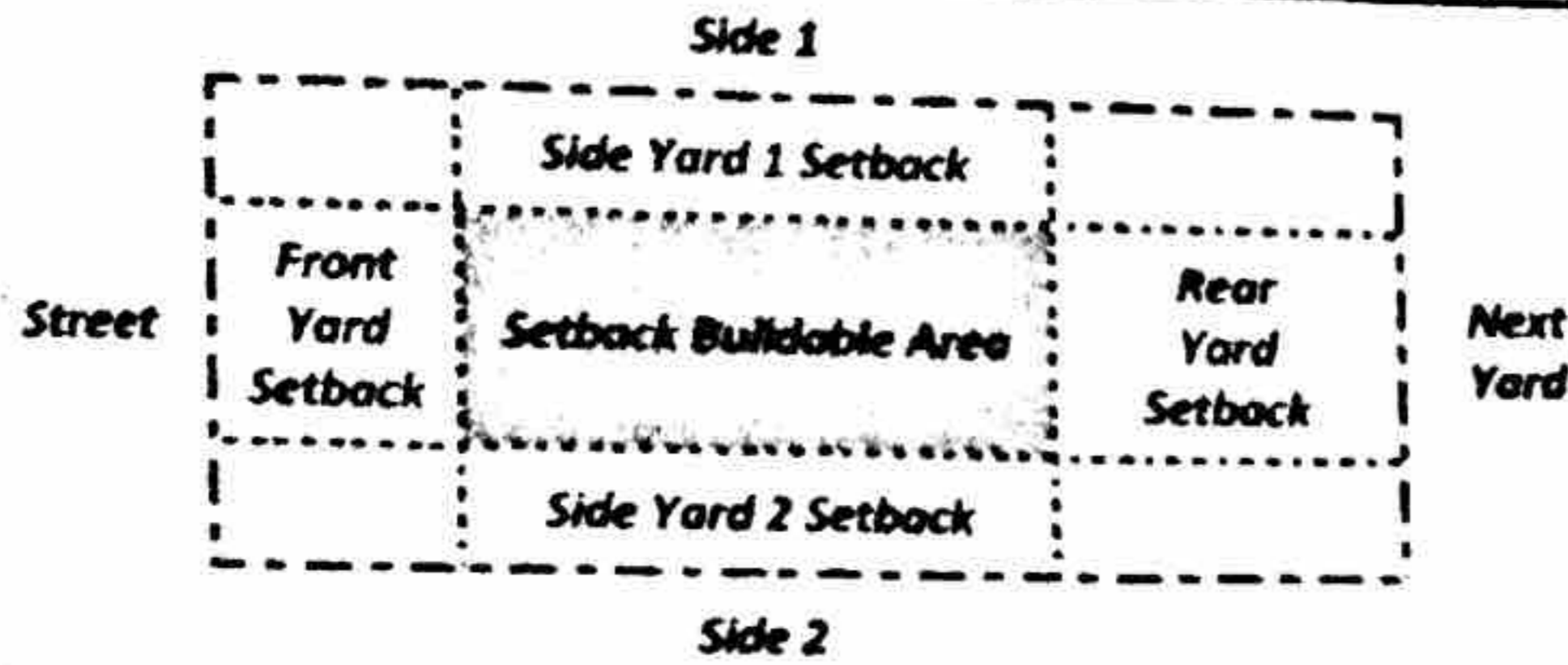
$$26,400 \times 10 = 264,000$$

$$\text{MAX BLDG ALLOWABLE} / \text{FOOTPRINT} = 264,000 / 10,800 = 24.4$$

Name _____

FAR Worksheet #4

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



Property size	180 feet deep x 110 feet wide
Front Setback	15 feet
Rear Setback	35 feet
Side 1 Setback	15 feet
Side 2 Setback	15 feet

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

$$A = L \times W \rightarrow 180 \times 110 = 19800$$

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

$$180 - 50 = 130 \quad 130 \times 80 = 10400$$

$$140 - 30 = 110 \quad 110 \times 80 = 8800$$

3. If the Floor Area Ratio (FAR) is 8, what is the allowable building area?

$$\text{MAX BLDG AREA} = \text{FAR} \times \text{LOT AREA}$$

$$8 \times 19800$$

$$\text{ALLOWABLE} = 158400$$

4. Based on the FAR of 8 and the buildable lot area after setbacks how tall is the building?

$$\text{MAX BLDG AREA} / \text{FOOTPRINT} = \# \text{ STORIES}$$

$$158400 / 10400 = 15.23$$

5. Based on the FAR of 3 and the buildable lot area after setbacks how tall is the building?

$$\text{FAR} = 3$$

$$\text{LOT AREA} = 19800$$

$$\text{FOOTPRINT} = 10400$$

$$\text{LA} \times \text{FAR}$$

$$19800 \cdot 3 = 59400$$

$$\text{MAX BLDG ALLOWABLE} / \text{FOOTPRINT}$$

$$59400 / 10400$$

$$\boxed{5.71}$$