

AMUSEMENT PARK TYCOON

Tycoon Name: _____

Park Theme: _____

Current Tycoon Rating: _____ / 4,500 Stars

The Mission: You have been hired as the Chief Designer for a brand-new theme park!

The Problem: The construction crew needs to know the exact **Area** (the total flat space inside a shape) for each attraction to buy the right amount of concrete flooring.

The Rule: Finding perimeter meant walking around the outside, but finding **Area** means counting the squares inside! To calculate the area of a square or rectangle quickly, use the magic formula:

$$\text{Area} = \text{Length} \cdot \text{Width}$$

Unit Warning: Area is always measured in **square units** (like m² or sq ft)!



STAGE 1: THE RIDE LAYOUTS (1,200 Stars total)

Calculate the area of these standard ride foundations to earn your first design stars.

#1: The Bumper Car Pavilion (300 Stars)

- **Attraction Shape:** A perfect square. One side measures **8 meters**.
- *Hint: A square has equal lengths and widths (8 · 8)!*
- **Show Your Multiplication Work:**
- **Total Flooring Area:** _____ meters²

#2: The Roller Coaster Loading Station (300 Stars)

- **Attraction Shape:** A long rectangle. The length is **15 meters** and the width is **4 meters**.
- **Show Your Multiplication Work:**
- **Total Flooring Area:** _____ meters²



#3: The Ferris Wheel Platform (300 Stars)

- **Attraction Shape:** A rectangular wood deck. The length is **12 feet** and the width is **9 feet**.
- **Show Your Multiplication Work:**
- **Total Flooring Area:** _____ square feet

#4: The Kids' Arcade Palace (300 Stars)

- **Attraction Shape:** A large square hall. One side measures **11 meters**.
- **Show Your Multiplication Work:**
- **Total Flooring Area:** _____ meters²



STAGE 2: FOOD COURTS & PLAZAS (1,500 Stars total)

Warning: Double-digit grid measurements ahead! Multiply carefully to lay down the foundations for the food courts.

#5: The Cotton Candy Courtyard (500 Stars)

- **Attraction Shape:** A rectangle measuring **14 m long** by **7 m wide**.
- **Show Your Multiplication Work:**
- **Total Courtyard Area:** _____ meters²

#6: The Sci-Fi Gift Shop (500 Stars)

- **Attraction Shape:** A square blueprint layout. One side measures **13 feet**.
- **Show Your Multiplication Work:**
- **Total Shop Area:** _____ square feet

#7: The Grand Entry Plaza (500 Stars)

- **Attraction Shape:** A massive rectangle measuring **22 m long** by **8 m wide**.
- **Show Your Multiplication Work:**
- **Total Plaza Area:** _____ meters²





STAGE 3: BLUEPRINT INSPECTION LOGS (1,000 Stars total)

Directions: Read the construction logs carefully. Use inverse division math to solve the missing dimension mysteries.

#8: Log Entry - The Souvenir Stand (500 Stars)

*"We built a rectangular souvenir stand with a total known area of exactly **48 square meters**. The blueprint shows the length of the front wall is **8 meters**. What is the missing width of the side wall?"*

- *Hint: $\text{Area} \div \text{Length} = \text{Width}$*
- **Show Your Division Work:**
- **Missing Side Width: _____ meters**

#9: Log Entry - The Pirate Ship Splash Zone (500 Stars)

*"The water park expansion requires a rectangular splash pad. The concrete budget allows for exactly **90 square yards** of total space. If the pad must be **10 yards wide**, how long can we make the length of the splash zone?"*

- **Show Your Division Work:**
 - **Maximum Allowable Length: _____ yards**
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THE MEGA WATER PARK EXPANSION

BOSS BATTLE VALUE: 800 Stars

CRITICAL BLUEPRINT CHALLENGE: The city council just approved your giant final expansion block! They granted you a massive rectangular plot of land measuring **35 meters long** by **12 meters wide**. Calculate the total area of this new sector perfectly to finish your tycoon park!

- **Step 1: Set up the area formula equation with the new dimensions:**

Area = _____ · _____

- **Step 2: Show your multi-digit multiplication stacking steps:**

- **FINAL MASTER TYCOON AREA REBOOT KEY:** _____ m²
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