

1 Warm-up: Doubles

2-min Fluency Warm-up — Solve in your head.

$6 + 6 = \underline{\hspace{2cm}}$

$8 + 8 = \underline{\hspace{2cm}}$

$5 + 5 = \underline{\hspace{2cm}}$

9 + 9 = _____

2 Learn: Patterns Have Rules

A **pattern** repeats by following a **rule**. Find the part that repeats — that is called the **core**.

Example: circle, square, circle, square... The rule is: **circle, square** repeats!



3 Continue the Pattern

Draw the next 2 shapes in each pattern. Write the rule.



The rule: _____



The rule: _____



The rule: _____



The rule: _____

4 Number Talk: Will It Appear?

Number Talk — Explain **WITHOUT** calculating every number.

2, 4, 6, 8, 10, ...

Will the number **25** ever appear in this pattern? How do you know without counting all the way?

My thinking: _____

5, 10, 15, 20, ...

Will **52** ever appear? How do you know?

My thinking: _____

5 Challenge: Create Your Own

Create Your Own — Draw your own repeating shape pattern. Use at least 2 different shapes. Then write the rule.

My rule: _____