

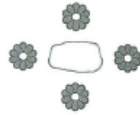
Adapted Math Problem for ELLs STEP 1-3

(Adaptation include: simplified grammar and vocabulary, shortened sentences, 'white-space' and use of first language, and bolded key vocabulary and phrases)

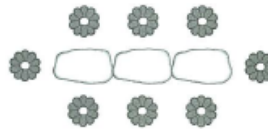
Chapter 1

Grandma wants a flower garden.

This is her first design. 設計



When she add more stones, it looks like this.



1. What is the **rule** for Grandmother's design?
2. Draw a **graph** to show the **trend line** for this rule.
3. What does the design look like for 5 stones (draw a picture).

Chapter 2:

Grandmother changed the design. Hew **new design rules** is:

$$\text{Number of flowers} = \text{Number of stones} \times 4 + 2$$

1. How is the rule the **same**?
2. How is the rule **different**?
3. What will the **trend line** look like?
4. **Draw a picture** to show the new design.
5. **Draw a graph** to show the **trend line** for this rule.

Chapter 3:

Grandmother changed the design. Her **new design** rule is:

$$\text{Number of flowers} = \text{Number of stones} \times 2 + 6$$

1. How is the rule the **same**?
2. How is the rule **different**?
3. What will the **trend line** look like?
4. **Draw a picture** to show the new design.
5. **Draw a graph** to show the **trend line** for this rule.

Chapter 4:

Grandmother wants to plan **98 flowers**.

1. **How many stones** would she need for **each design/rule**?
2. **Which design/rule** will use the **smallest (least) number of stones**.

Prove your thinking.

Extension: Can you think of a design/rule that would use **less stones**. Show your thinking