Algebra Concepts - Unit 1 Lesson 2

Recognizing Visual Patterns

For each exercise below:

- Draw the next figure in the sequence
- Determine the value (number of tiles) in the next three figures
- Describe what the 10th figure looks like

Figure 1 Figure 2 Figure 3 Figure 4 Value = _____ Value = 3 Value = 4 Value = 5

Value of Figure 5 = _____

Value of Figure 6 = _____

Describe Figure 10 (What would it look like, in words)

Guided Practice 1



Figure 1

Value = ____

Figure 2

Value = _____

Figure 3

Value = _____

Figure 4

Value = _____

Value of Figure 5 = _____

Value of Figure 6 = _____

Describe Figure 10 (What would it look like, in words)

Guided Practice 2



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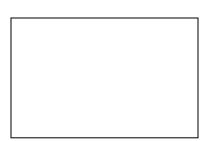


Figure 1

Value = _____

Figure 2

Value = _____

Figure 3

Value = _____

Figure 4

Value = _____

Value of Figure 5 = _____

Value of Figure 6 = _____

Describe Figure 10 (What would it look like, in words)

Guided Practice 3 Figure 1 Figure 2 Figure 3 Figure 4 Value = _____ Value = _____ Value = _____ Value = _____ Value of Figure 5 = Value of Figure 6 = _____ Describe Figure 10 (What would it look like, in words) Figure "n" Now that you have discovered patterns, you are ready to express them in abstract terms using a variable. A variable is something that changes (varies) in a given situation. In algebra, a letter is used to represent a variable. We'll use *n* to represent the figure number in our tile examples. Look back at each guided practice example and let's work together to determine the number of tiles in the "nth" figure. Guided Practice 1: The nth figure has ______ tiles.

Guided Practice 2: The nth figure has ______ tiles.

Guided Practice 3: The nth figure has ______ tiles.