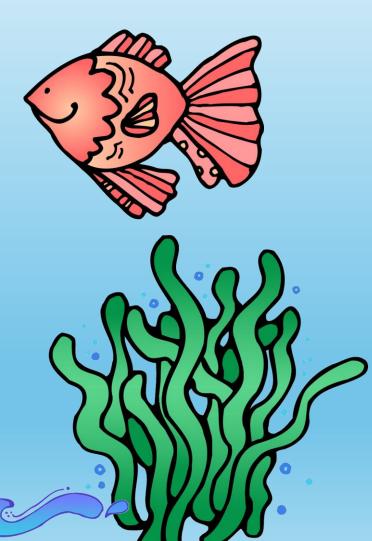
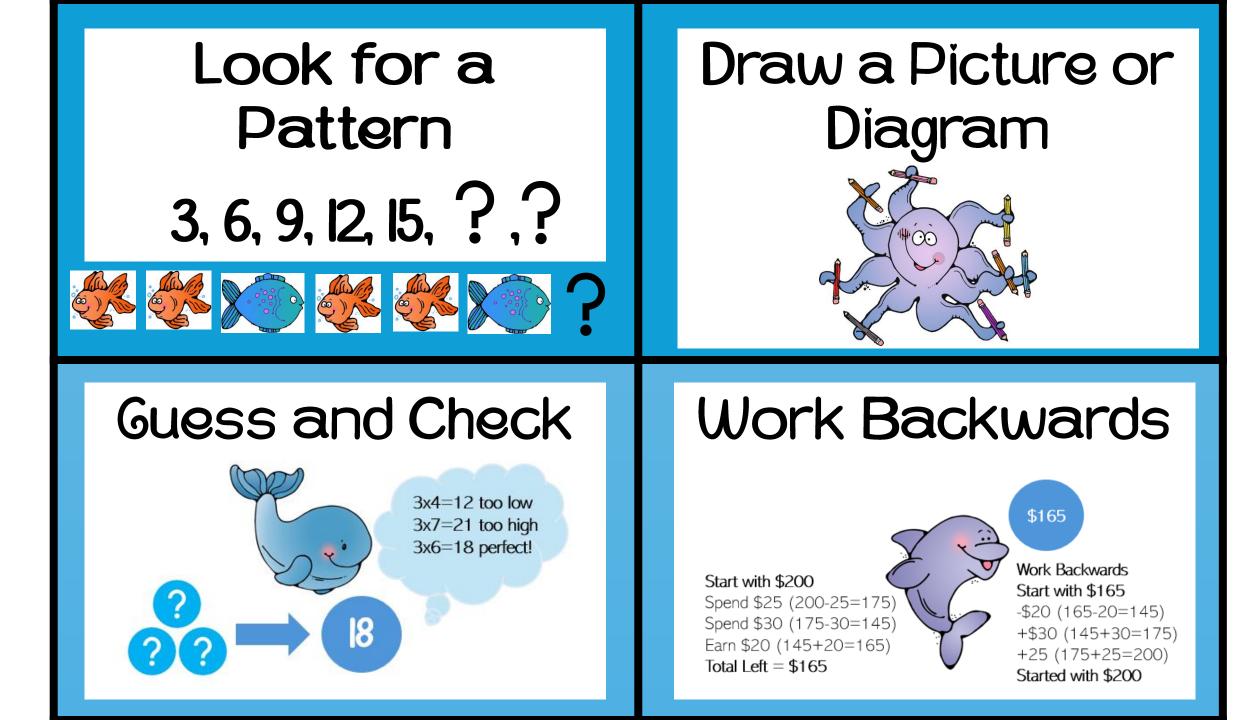
# **Problem Solving Strategies**

- Look for a Pattern
- Draw a Picture or Diagram
- Guess and Check
- Work Backwards
- Make a Table
- Make a List
- Act it Out
- Write an Equation
- Solve an Easier Problem
- Use Estimation





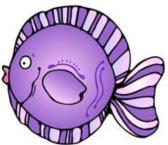


### Make a Table

	Input	The Math	Output
10.0.00	5	(5 x 2) + 3	13
C CC	6	(6 x 2) + 3	15
e lile	7	(7 x 2 ) +3	17
	8	(8 x 2 ) +3	19

#### Make a List

How many ways can you arrange the letters A, B, C? ABC ACB BAC BCA CAB CBA

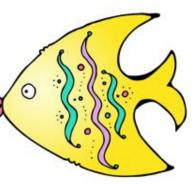


## Act it Out

There are 4 people in the room. If each one shakes hands with one another, how many handshakes occur?

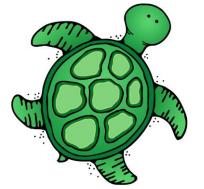
### Write an Equation

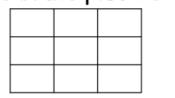
Twice a number added to 6 is 14. 2x + 6 = 14



#### Solve an Easier Problem

#### How many squares are in the picture?





Squares with sides of 1 unit = 9 Squares with sides of 2 units = 4 Squares with sides of 3 units = 1 Number of squares: 9 + 4 + 1 = 14

### **Use Estimation**

One pail holds 12 starfish (that's close to 10). There are 8 pails (that's close to 10). So,  $10 \times 10$  is about 100 starfish.



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