

Inductive Reasoning Exit Quiz

Multiple Choice

1. What is the name of the missing polygon in this pattern?

Dodecagon, decagon, octagon, -..., quadrilateral.

a.) heptagon

b.) pentagon

c.) triangle

d.) hexagon

2. Which figure is a counterexample to the following statement?

A quadrilateral with one pair of parallel sides is a parallelogram.

a.) A right triangle has perpendicular sides.

b.) A trapezoid is not a parallelogram.

c.) A dart is not a parallelogram.

d.) A square is a rectangle.

3. Which number is next in the sequence: 45, 90, 135, 180,

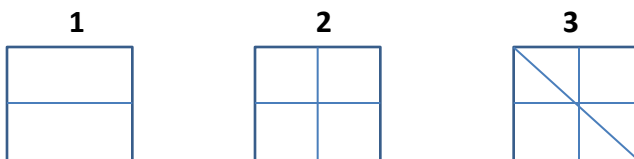
a.) 225

b.) 200

c.) 135

d.) 245

4. Use inductive reasoning. Make a conjecture about the next figure in the pattern. Then draw the figure



5. Write a rule for each number pattern, and find the next number.

1, 2.5, 4, 5.5,

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ANSWERS

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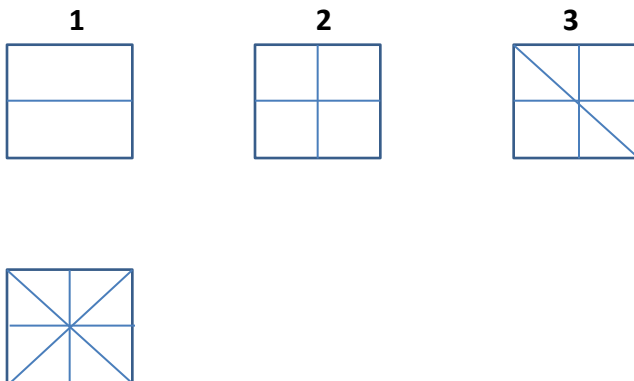
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5. Write a rule for each number pattern, and find the next number.

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Start with 1, each number is obtained by adding 1.5 to the previous number.

$$1 + 1.5 = 2.5$$

$$2.5 + 1.5 = 4$$

$$4 + 1.5 = 5.5$$

$$5.5 + 1.5 = 7$$

The next number is **7**