Determining the Relations

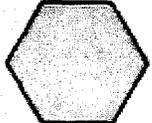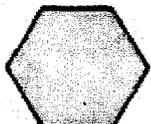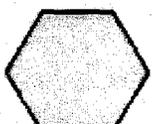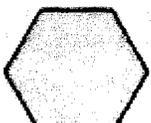Use the figures you colored to answer the following questions.
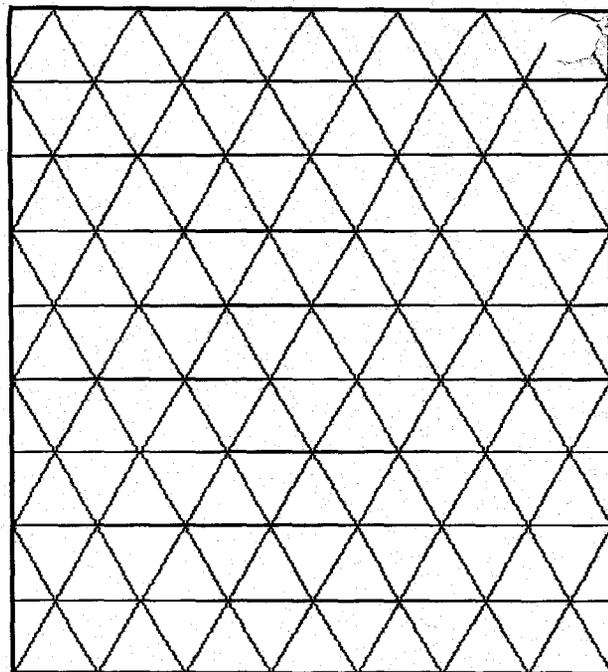
1. How many △ are in ▱ ?

2. How many △ are in ▽ ?

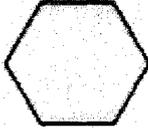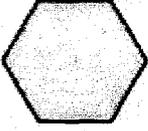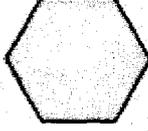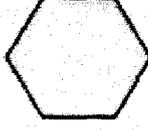3. How many ▽ are in ⬡ ?
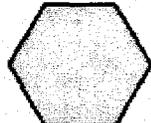
4. How many △ are in ⬡ ?

5. How many ▱ are in ⬡ ?

6. How many ▱ are in ▽ ?

Based on these relations,

7. If ⬡ = 1, △ = ___ .

8. If ▽ = 1, △ = ___ .

9. If ⬡ = 1, ▽ = ___ .

10. If ▽ = 1, ▱ = ___ .

Part 2
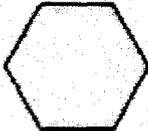
1. If ⬡ + ▰ = 1, what is ▲?

2. If ⬡ + ▱ = 1, what is ▲ + ▲?

3. If ▲ + ▲ = 1, what is ⬡ + ◆?

4. If ⬡ + ▲ = 1, what is ▰?

5. If ⬡ - ▲ = 1, what is ▰ + ◆?

1. If ▲ is 1/2 of a unit then draw 1 unit.

2. If ▲ is 1/2 of a unit then draw 2 1/2 units.

3. If ⬛ is 1/2 of a unit then draw 1 unit.

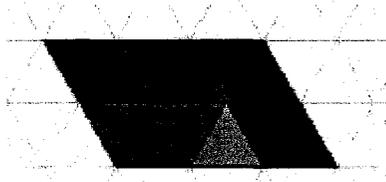4. If ▰ is 1/3 of a unit then draw 1 unit.
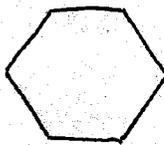
5. ⬡ is 3 units then ▰ is _____ .
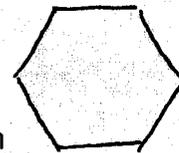
6. If ⬛ is 1 unit then ⬡ is _____ .

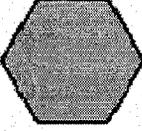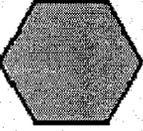7. If ⬛ is 1 unit then ▰ is _____ .

8. If ⬛ is 1 unit then ▲ is _____ .

Extra!

9. If ▰ is 1 then ⬛ is _____ .
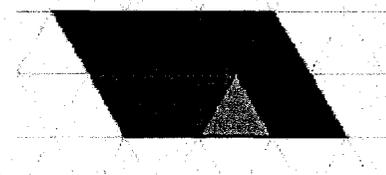
10. If ▰ is 1 then ▲ is _____ .

1. How many ▲ are in ▰ ? **2**

2. How many ▲ are in ⬯ ? **3**

3. How many ⬯ are in ⬡ ? **2**

4. How many ▲ are in ⬡ ? **6**
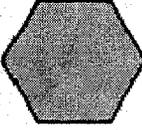
5. How many ▰ are in ⬡ ? **3**

6. How many ▰ are in ⬯ ? **1 1/2**

Based on these relationships,
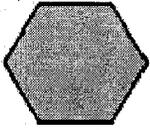
7. If ⬡ = 1, ▲ = ___ . **1/6**

8. If ⬯ = 1, ▲ = ___ . **1/3**
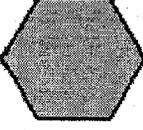
9. If ⬡ = 1, ⬯ = ___ . **1/2**

10. If ⬯ = 1, ▰ = ___ . **2/3**
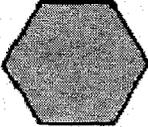
1. If ⬡ + ▱ = 1, what is ▲? **1/9**
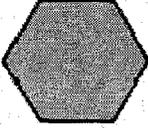
2. If ⬡ + ◢ = 1, what is ▲ + ▲? **2/8 or 1/4**
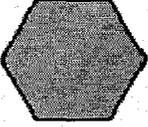
3. If ▲ + ▲ = 1, what is ⬡ + ◢? **4**
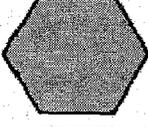
4. If ⬡ + ▲ = 1, what is ▱? **3/7**
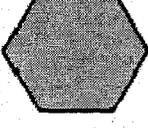
5. If ⬡ - ▲ = 1, what is ▱ + ◢? **1**

1. If ▲ + ⬯ = 2/3, what is 1?

⬡

2. If ⬡ + ◢ = 4/5, what is 2/5?

3. If ◢ + ▲ = 3/4, what is 1/2?

4. If ⬯ + ◢ = 5/8, what is 3/4?

⬡
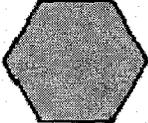
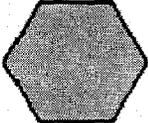5. If ⬡ - ◢ = 1 1/3, what is 2/3 ?
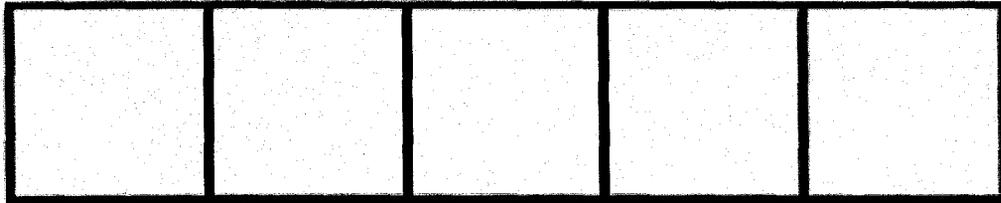
Answers

6. If ▲ + ⬯ = 2/3, what is 1?   ⬡
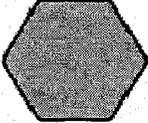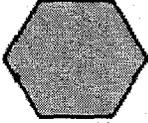
7. If ⬡ + ◢ = 4/5, what is 2/5?   ⬯ + ▲

8. If ◢ + ▲ = 3/4, what is 1/2?   ◢

9. If ⬯ + ◢ = 5/8, what is 3/4?   ⬡
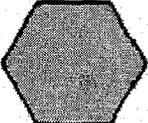
10. If ⬡ - ◢ = 1 1/3, what is 2/3?   ◢

Triangle, Square, and Smaller Rhombus Cutouts

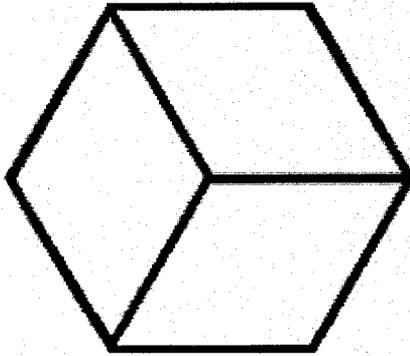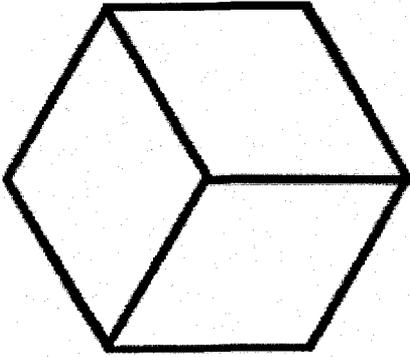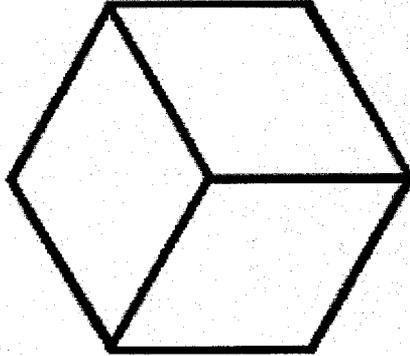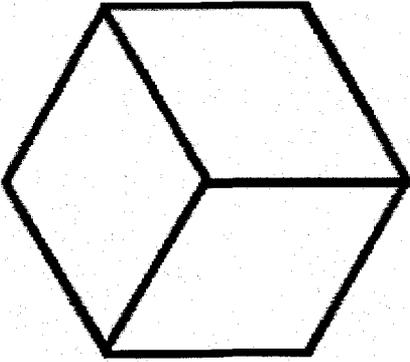Cut along the solid lines! If you color your pieces, a triangle is green, a square is orange, and the smaller rhombus in a set of pattern blocks is beige.
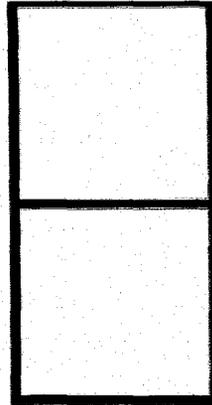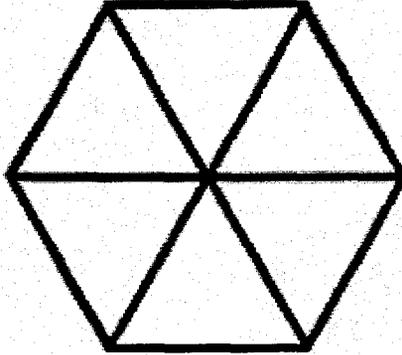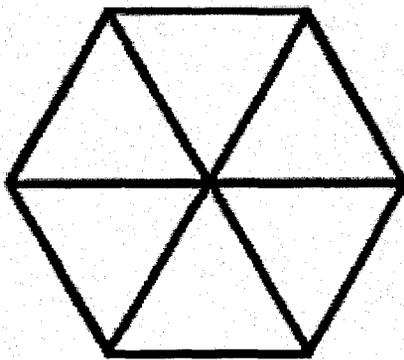
Larger Rhombus Cutouts
Cut along the solid lines! If you color your pieces, a large rhombus is dark blue.
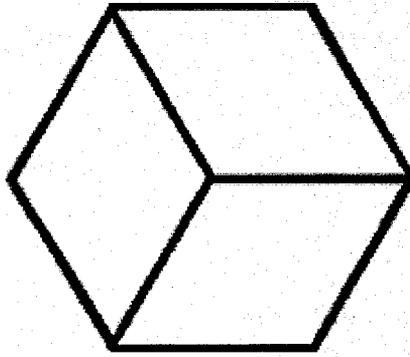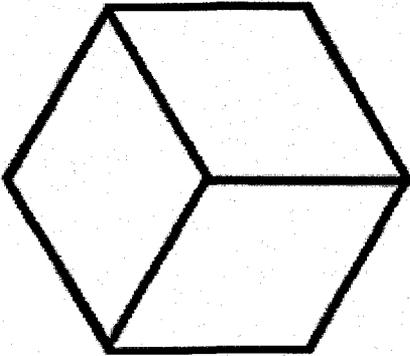
Trapezoid Cutouts
Cut along the solid lines! If you color in your pieces, a trapezoid is red.