

**Q1 (Pattern) Day 53** Name: \_\_\_\_\_

1. Look at the **sequence of 3 patterns** below. Each pattern is **made up of small squares**.



Pattern 1



Pattern 2



Pattern 3

Look at the **table below**. It shows the number of small squares in each pattern.

Pattern	1	2	3
Small Squares	1	2	3

a) **How many** squares are needed to make **Pattern 10**?

Write your answer in the space below.

\_\_\_\_\_ small squares

b) Look at the pattern in above again. What **number pattern** would have **100 squares**? Write your answer in the space below.

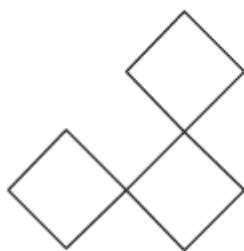
Pattern \_\_\_\_\_

---

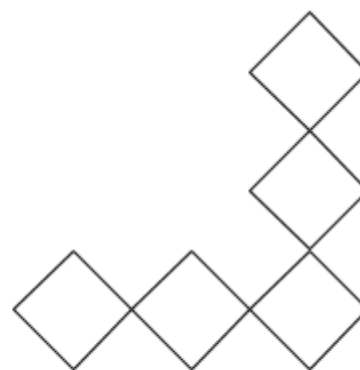
2. Look at the **sequence of 3 patterns** below. Each pattern is **made up** of **small squares**.



Pattern 1



Pattern 2



Pattern 3

Look at the **table below**. It shows the number of small squares in each pattern.

<b>Pattern</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>Small Squares</b>	1	3	5

a) **How many** squares are needed to make **Pattern 6**?  
Write your answer in the space below.

\_\_\_\_\_ small squares

b) Look at the pattern in above again. What **number pattern** would have **15 squares**? Write your answer in the space below.

Pattern \_\_\_\_\_

---

3. Look at the **sequence of 3 patterns** below. Each pattern is **made up** of **small squares**.



Pattern 1



Pattern 2



Pattern 3

Look at the **table below**. It shows the number of small squares in each pattern.

<b>Pattern</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>Small Squares</b>	1	3	6

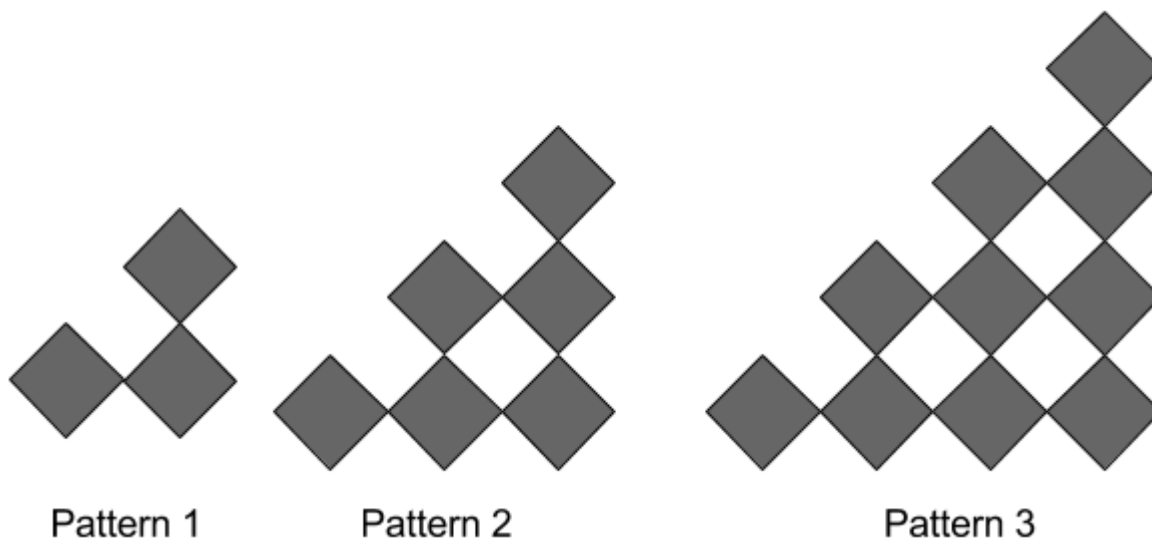
a) **How many** squares are needed to make **Pattern 5**?  
Write your answer in the space below.

\_\_\_\_\_ small squares

b) Look at the pattern in above again. What **number pattern** would have **28 squares**? Write your answer in the space below.

Pattern \_\_\_\_\_

4. Look at the **sequence of 3 patterns** below. Each pattern is **made up of small squares**.



Look at the **table below**. It shows the number of small squares in each pattern.

<b>Pattern</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>Small Squares</b>	3	6	10

a) **How many** squares are needed to make **Pattern 6**?  
Write your answer in the space below.

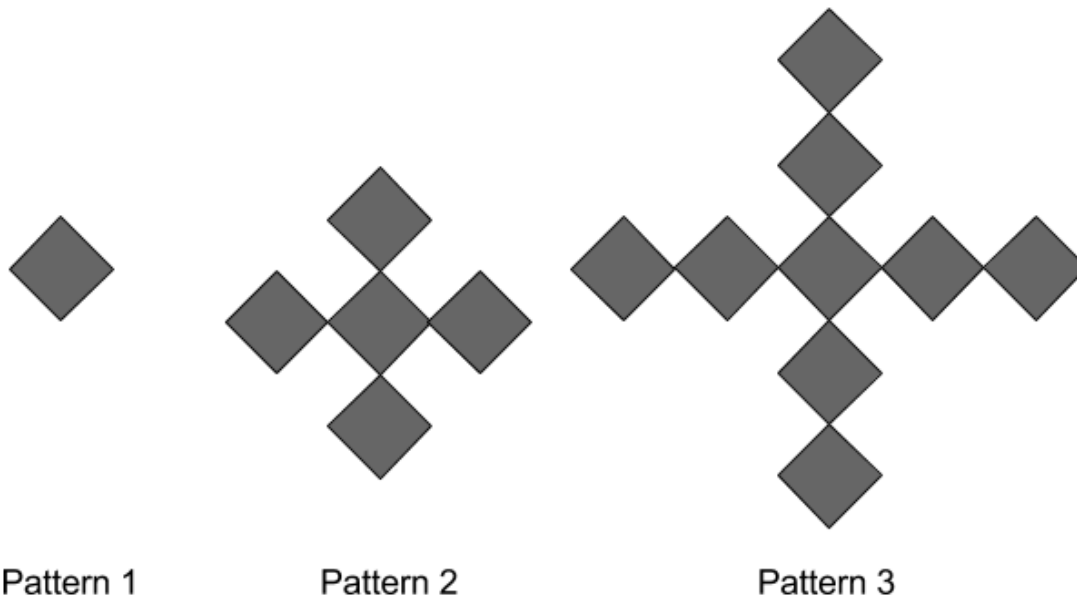
\_\_\_\_\_ small squares

b) Look at the pattern in above again. What **number pattern** would have **36 squares**? Write your answer in the space below.

Pattern \_\_\_\_\_

---

5. Look at the **sequence of 3 patterns** below. Each pattern is **made up of small squares**.



Look at the **table below**. It shows the number of small squares in each pattern.

<b>Pattern</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>Small Squares</b>	1	5	9

a) **How many** squares are needed to make **Pattern 8**?  
Write your answer in the space below.

\_\_\_\_\_ small squares

b) Look at the pattern in above again. What **number pattern** would have **37 squares**? Write your answer in the space below.

Pattern \_\_\_\_\_

---

6. Look at the **sequence of 3 patterns** below. Each pattern is **made up** of **small squares**.



Pattern 1



Pattern 2



Pattern 3

Look at the **table below**. It shows the number of small squares in each pattern.

Pattern	1	2	3
Small Squares	2	5	10

a) **How many** squares are needed to make **Pattern 5**?

Write your answer in the space below.

\_\_\_\_\_ small squares

b) Look at the pattern in above again. What **number pattern** would have **50 squares**? Write your answer in the space below.

Pattern \_\_\_\_\_

---

7. Look at the **sequence of 3 patterns** below. Each pattern is **made up** of **small squares**.



Pattern 1



Pattern 2



Pattern 3

Look at the **table below**. It shows the number of small squares in each pattern.

<b>Pattern</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>Small Squares</b>	1	4	9

a) **How many** squares are needed to make **Pattern 5**?

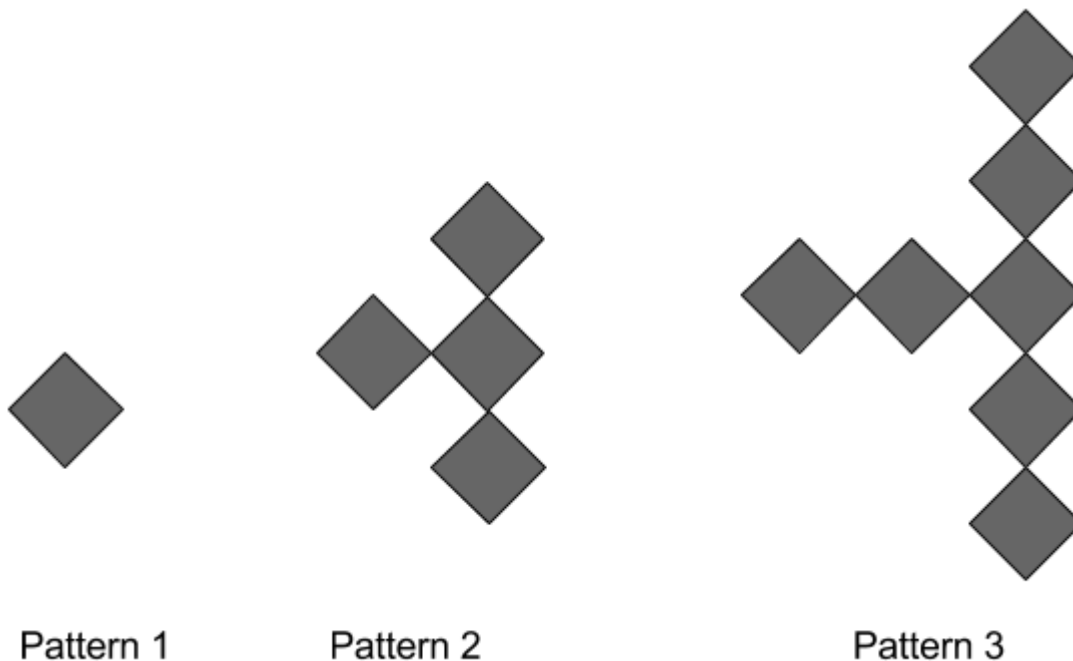
Write your answer in the space below.

\_\_\_\_\_ small squares

b) Look at the pattern in above again. What **number pattern** would have **36 squares**? Write your answer in the space below.

Pattern \_\_\_\_\_

8. Look at the **sequence of 3 patterns** below. Each pattern is **made up** of **small squares**.



Look at the **table below**. It shows the number of small squares in each pattern.

<b>Pattern</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>Small Squares</b>	1	4	7

a) **How many** squares are needed to make **Pattern 6**?  
Write your answer in the space below.

\_\_\_\_\_ small squares

b) Look at the pattern in above again. What **number pattern** would have **25 squares**? Write your answer in the space below.

Pattern \_\_\_\_\_

---

9. Look at the **sequence of 4 patterns** below. Each pattern is **made up** of **small squares**.



Pattern 1



Pattern 2



Pattern 3



Pattern 4

Look at the **table below**. It shows the number of small squares in each pattern.

<b>Pattern</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>Small Squares</b>	1	1	2	3

a) **How many** squares are needed to make **Pattern 5**?

Write your answer in the space below.

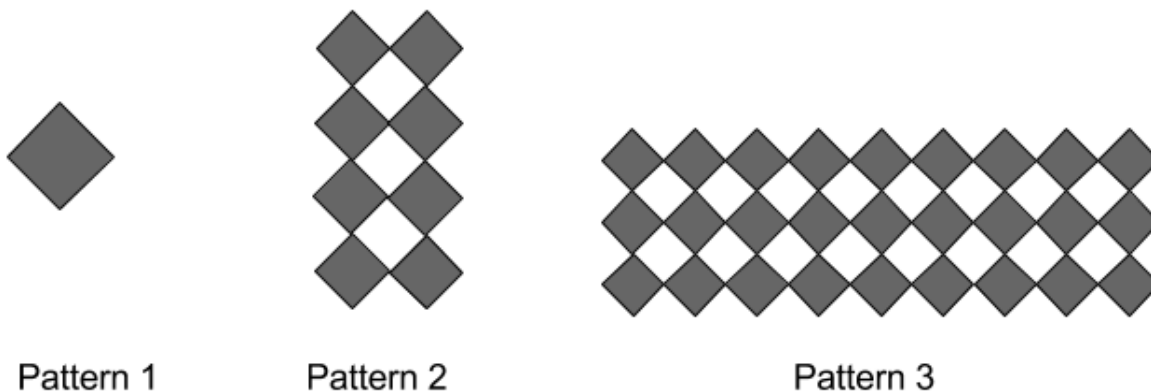
\_\_\_\_\_ small squares

b) Look at the pattern in above again. What **number pattern** would have **13 squares**? Write your answer in the space below.

Pattern \_\_\_\_\_

---

10. Look at the **sequence of 3 patterns** below. Each pattern is **made up of small squares**.



Look at the **table below**. It shows the number of small squares in each pattern.

<b>Pattern</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>Small Squares</b>	1	8	27

a) **How many** squares are needed to make **Pattern 4**?

Write your answer in the space below.

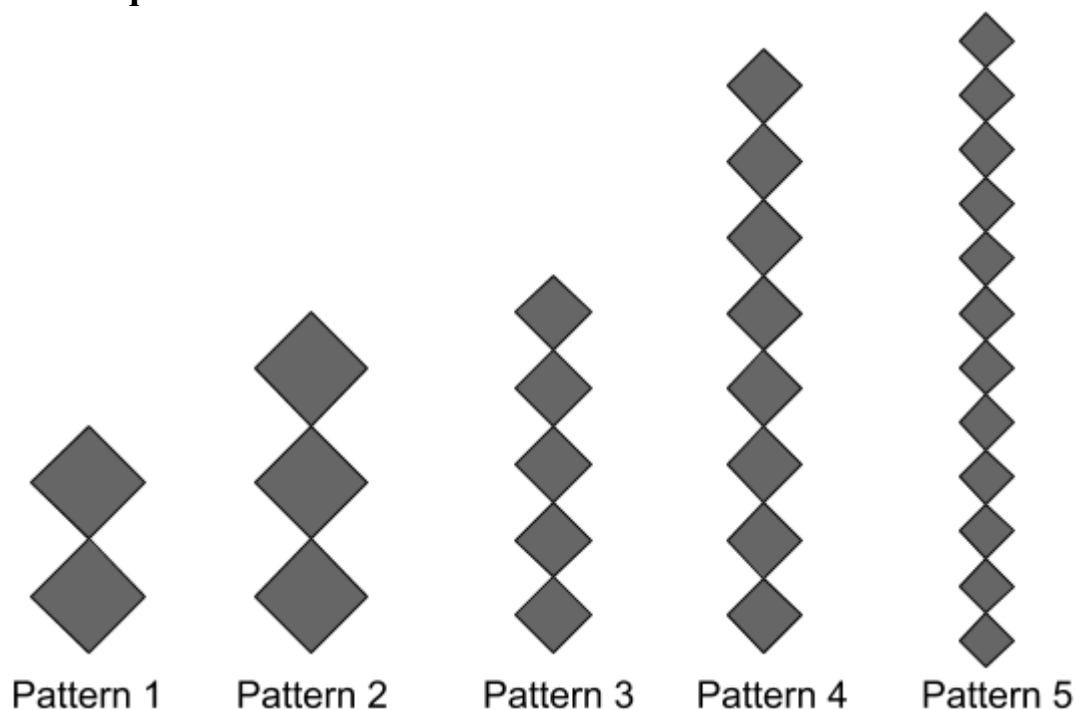
\_\_\_\_\_ small squares

b) Look at the pattern in above again. What **number pattern** would have **125 squares**? Write your answer in the space below.

Pattern \_\_\_\_\_

---

11. Look at the **sequence of 5 patterns** below. Each pattern is **made up of small squares**.



Look at the **table below**. It shows the number of small squares in each pattern.

<b>Pattern</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Small Squares</b>	2	3	5	8	12

a) **How many** squares are needed to make **Pattern 8**?

Write your answer in the space below.

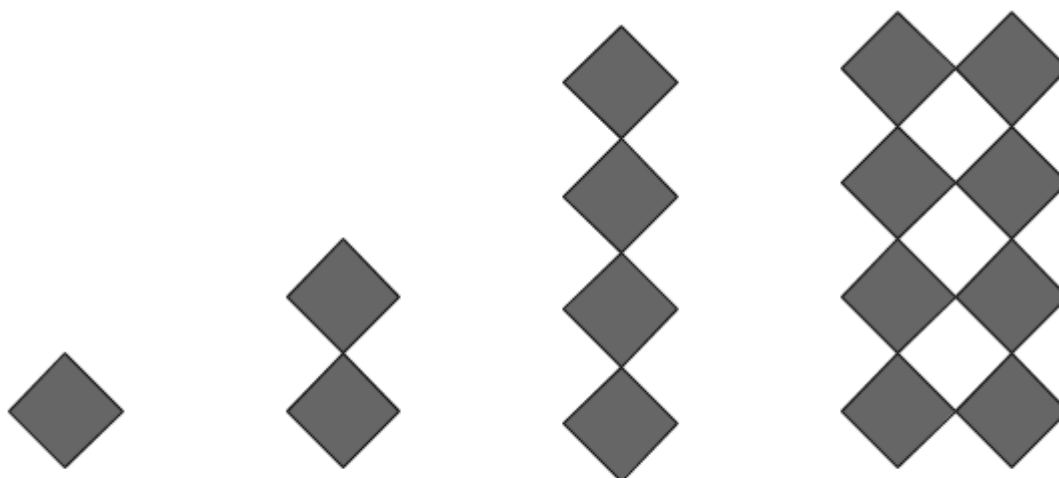
\_\_\_\_\_ small squares

b) Look at the pattern in above again. What **number pattern** would have **47 squares**? Write your answer in the space below.

Pattern \_\_\_\_\_

---

12. Look at the **sequence of 4 patterns** below. Each pattern is **made up of small squares**.



Pattern 1

Pattern 2

Pattern 3

Pattern 4

Look at the **table below**. It shows the number of small squares in each pattern.

Pattern	1	2	3	4
Small Squares	1	2	4	8

a) **How many** squares are needed to make **Pattern 8**?

Write your answer in the space below.

\_\_\_\_\_ small squares

b) Look at the pattern in above again. What **number pattern** would have **512 squares**? Write your answer in the space below.

Pattern \_\_\_\_\_

**Answers**

- |                  |               |
|------------------|---------------|
| <b>1. a) 10</b>  | <b>b) 100</b> |
| <b>2. a) 11</b>  | <b>b) 8</b>   |
| <b>3. a) 15</b>  | <b>b) 7</b>   |
| <b>4. a) 28</b>  | <b>b) 7</b>   |
| <b>5. a) 29</b>  | <b>b) 10</b>  |
| <b>6. a) 26</b>  | <b>b) 7</b>   |
| <b>7. a) 25</b>  | <b>b) 6</b>   |
| <b>8. a) 16</b>  | <b>b) 9</b>   |
| <b>9. a) 5</b>   | <b>b) 7</b>   |
| <b>10.a) 64</b>  | <b>b) 5</b>   |
| <b>11.a) 30</b>  | <b>b) 10</b>  |
| <b>12.a) 128</b> | <b>b) 10</b>  |