

Q1-Q2 (Pattern) Day 144 Name: _____

1. Patterns are formed from **square tiles**. The **first three patterns** in a sequence are shown below.



Pattern 1



Pattern 2



Pattern 3

a) **How many** tiles are needed to make the **tenth** pattern? Write your answer in the space below.

_____ tiles

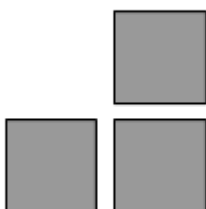
b) **How many more** tiles are needed for the **tenth** pattern **than the sixth** pattern? Write your answer in the space below.

_____ tiles

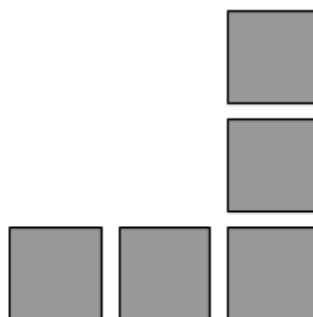
2. Patterns are formed from **square tiles**. The **first three patterns** in a sequence are shown below.



Pattern 1



Pattern 2



Pattern 3

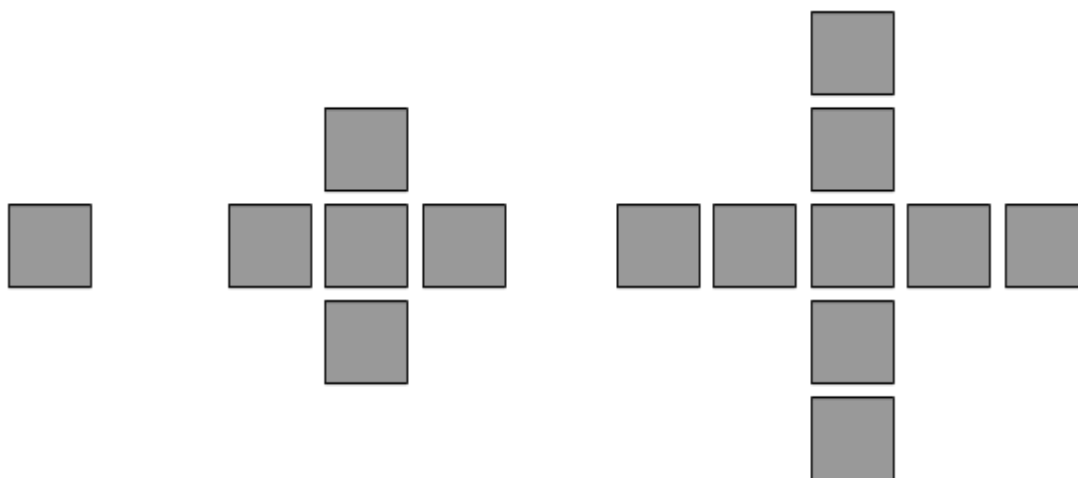
a) **How many** tiles are needed to make the **seventh** pattern? Write your answer in the space below.

_____ tiles

b) **How many more** tiles are needed for the **sixth** pattern **than the fourth** pattern? Write your answer in the space below.

_____ tiles

3. Patterns are formed from **square tiles**. The **first three patterns** in a sequence are shown below.



Pattern 1

Pattern 2

Pattern 3

a) **How many** tiles are needed to make the **eighth** pattern? Write your answer in the space below.

_____ tiles

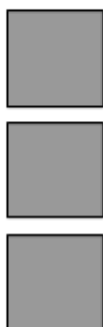
b) **How many more** tiles are needed for the **ninth** pattern **than the fifth** pattern? Write your answer in the space below.

_____ tiles

4. Patterns are formed from **square tiles**. The **first three patterns** in a sequence are shown below.



Pattern 1



Pattern 2



Pattern 3

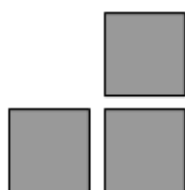
a) **How many** tiles are needed to make the **seventh** pattern? Write your answer in the space below.

_____ tiles

b) **How many more** tiles are needed for the **tenth** pattern **than the sixth** pattern? Write your answer in the space below.

_____ tiles

5. Patterns are formed from **square tiles**. The **first three patterns** in a sequence are shown below.



Pattern 1



Pattern 2



Pattern 3

a) **How many** tiles are needed to make the **seventh** pattern? Write your answer in the space below.

_____ tiles

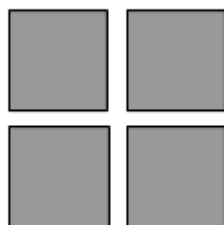
b) **How many more** tiles are needed for the **eighth** pattern **than the fifth** pattern? Write your answer in the space below.

_____ tiles

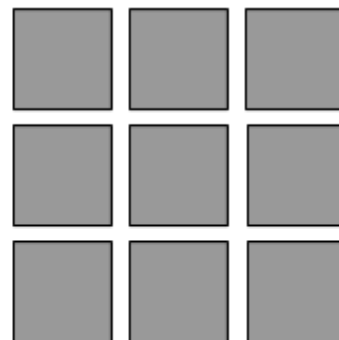
6. Patterns are formed from **square tiles**. The **first three patterns** in a sequence are shown below.



Pattern 1



Pattern 2



Pattern 3

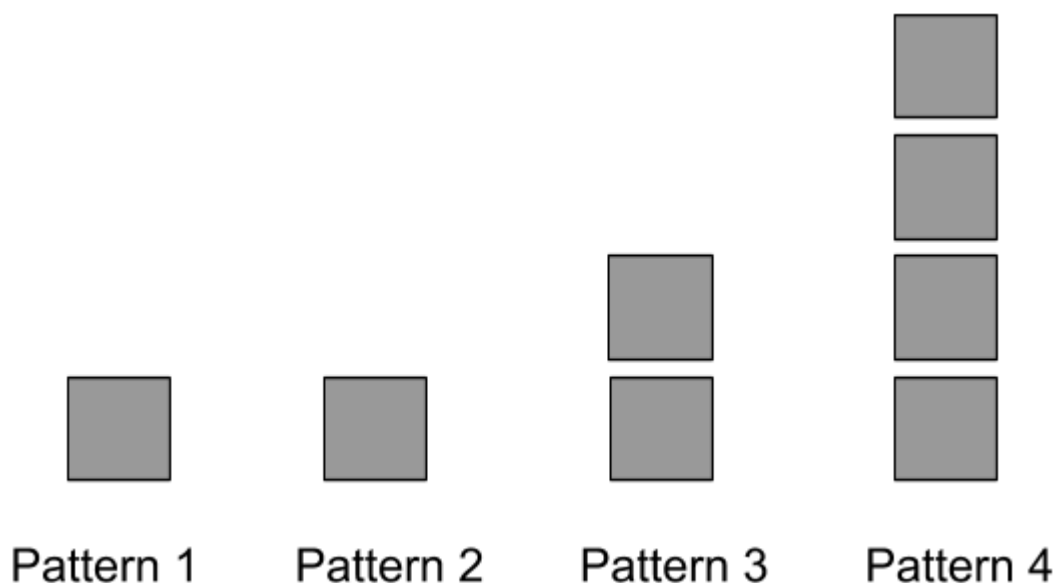
a) **How many** tiles are needed to make the **sixth** pattern? Write your answer in the space below.

_____ tiles

b) **How many more** tiles are needed for the **seventh** pattern **than the second** pattern? Write your answer in the space below.

_____ tiles

7. Patterns are formed from **square tiles**. The **first three patterns** in a sequence are shown below.



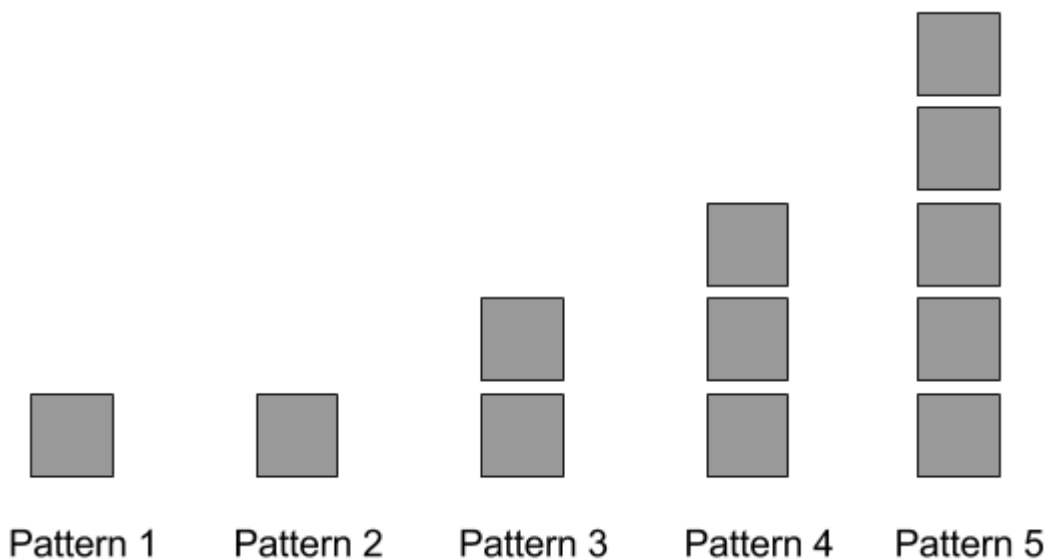
a) **How many** tiles are needed to make the **sixth** pattern? Write your answer in the space below.

_____ tiles

b) **How many more** tiles are needed for the **fifth** pattern **than the third** pattern? Write your answer in the space below.

_____ tiles

8. Patterns are formed from **square tiles**. The **first three patterns** in a sequence are shown below.



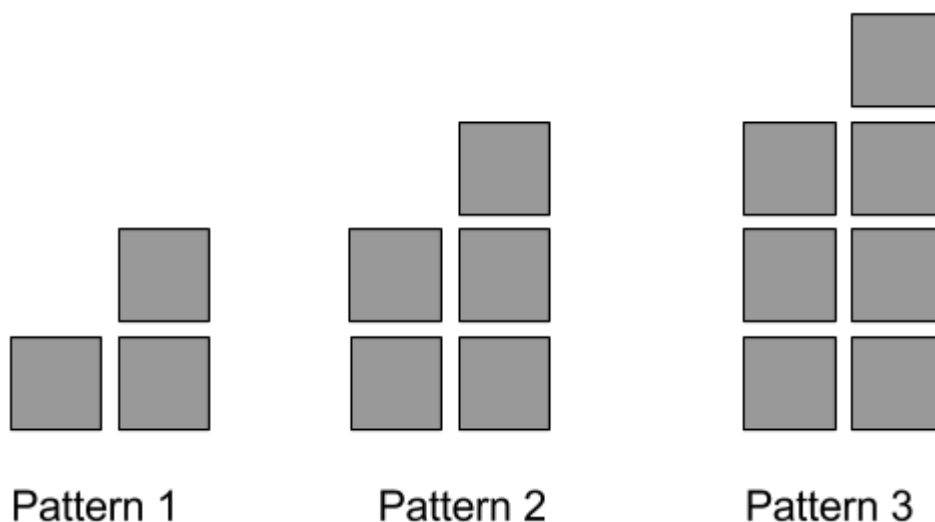
a) **How many** tiles are needed to make the **eighth** pattern? Write your answer in the space below.

_____ tiles

b) **How many more** tiles are needed for the **seventh** pattern **than the fifth** pattern? Write your answer in the space below.

_____ tiles

9. Patterns are formed from **square tiles**. The **first three patterns** in a sequence are shown below.



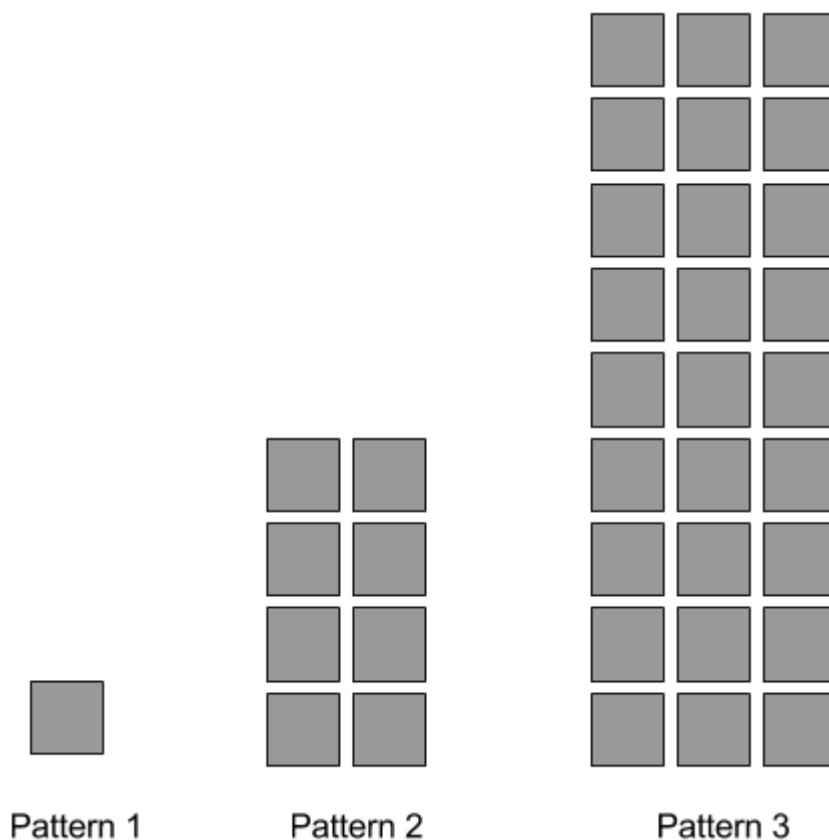
a) **How many** tiles are needed to make the **ninth** pattern? Write your answer in the space below.

_____ tiles

b) **How many more** tiles are needed for the **seventh** pattern **than the fifth** pattern? Write your answer in the space below.

_____ tiles

10. Patterns are formed from **square tiles**. The **first three patterns** in a sequence are shown below.



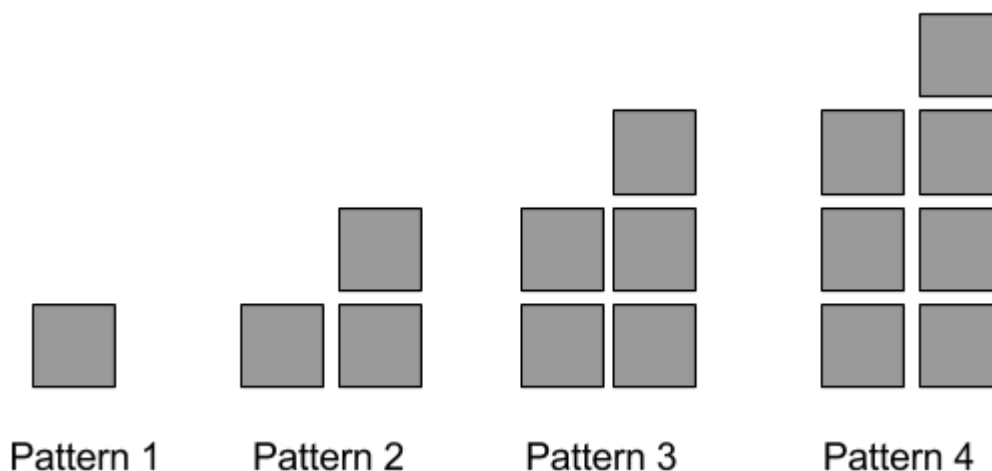
a) **How many** tiles are needed to make the **fifth** pattern? Write your answer in the space below.

_____ tiles

b) **How many more** tiles are needed for the **fourth** pattern **than the first** pattern? Write your answer in the space below.

_____ tiles

11. Patterns are formed from **square tiles**. The **first three patterns** in a sequence are shown below.



a) **How many** tiles are needed to make the **thirteenth** pattern? Write your answer in the space below.

_____ tiles

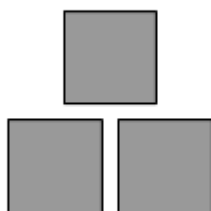
b) **How many more** tiles are needed for the **eleventh** pattern **than the eighth** pattern? Write your answer in the space below.

_____ tiles

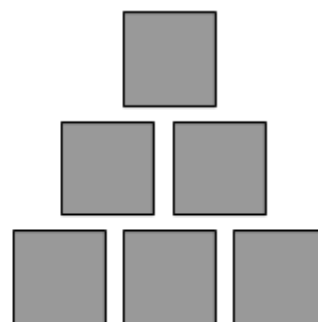
12. Patterns are formed from **square tiles**. The **first three patterns** in a sequence are shown below.



Pattern 1



Pattern 2



Pattern 3

a) **How many** tiles are needed to make the **tenth** pattern? Write your answer in the space below.

_____ tiles

b) **How many more** tiles are needed for the **eleventh** pattern **than the ninth** pattern? Write your answer in the space below.

_____ tiles

Answers

- | | |
|-----------|-------|
| 1. a) 10 | b) 4 |
| 2. a) 13 | b) 4 |
| 3. a) 29 | b) 16 |
| 4. a) 13 | b) 8 |
| 5. a) 21 | b) 9 |
| 6. a) 36 | b) 45 |
| 7. a) 11 | b) 5 |
| 8. a) 21 | b) 8 |
| 9. a) 19 | b) 4 |
| 10.a) 125 | b) 63 |
| 11.a) 25 | b) 6 |
| 12.a) 55 | b) 21 |