

## Year 6 Patterns Worksheet



1. Type the missing number in this sequence:

2, 4, 8, 16, 32, \_\_\_\_

2. Type the missing number in this sequence:

1, 2, \_\_\_\_, 8, 16

3. Type the missing number in this sequence:

5, 25, \_\_\_\_, 625, 3,125

4. Type the missing number in this sequence:

1, \_\_\_\_, 16, 64, 256

5. Type the next number in this sequence:

1, 3, 7, 13, 21, 31, \_\_\_\_

6. Type the next number in this sequence:

1, 2, 4, 7, 11, 16, \_\_\_\_

7. Type the next number in this sequence:

1, 2, 5, 10, 17, 26, 37, \_\_\_\_

8. Type the next number in this sequence:

1, 1, 3, 7, 13, 21, 31, \_\_\_\_

9. What is the next number in this pattern?

**Rule: multiply by 4, then subtract 4**

2, 4, 12, 44, 172, ...

10. What is the next number in this pattern?

**Rule: multiply by 5, then subtract 1**

2, 9, 44, 219, 1,094, 5,469, ...

11. What is the next number in this pattern?

**Rule: multiply by 5, then subtract 3**

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1, 2, 7, 32, 157, ...

12. What is the next number in this pattern?

**Rule: multiply by 5, then subtract 3**

2, 7, 32, 157, ...

13. Kristina sent 97 e-mails on Friday, 94 e-mails on Saturday, 89 e-mails on Sunday, 82 e-mails on Monday, and 73 e-mails on Tuesday. If this pattern continues, how many e-mails will Kristina send on Wednesday?
14. Danny sent 1 piece of mail in December, 5 pieces of mail in January, 25 pieces of mail in February, and 125 pieces of mail in March. If this pattern continues, how many pieces of mail will Danny send in April?
15. A new art book is becoming popular. The local bookstore ordered 83 copies in March, 90 copies in April, 99 copies in May, 110 copies in June, and 123 copies in July. If this pattern continues, how many copies will the bookstore order in August?
16. At a birthday party, the first child receives 3 smiley stickers, the second child receives 5 smiley stickers, the third child receives 9 smiley stickers, the fourth child receives 15 smiley stickers, and the fifth child receives 23 smiley stickers. If this pattern continues, how many smiley stickers will the sixth child receive?

17. Look at this pattern:



How would you show this pattern using letters?

- A. AB
- B. ABC
- C. AAB

18. Look at this pattern:



How would you show this pattern using letters?

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- A. ABC
- B. AAB
- C. ABB

19. Look at this series:

@#\$@ @\$\$@ @\$\$\$\$@ -----

What comes next?

- A. @\$\$\$\$@
- B. @\$\$\$\$\$@
- C. @\$\$\$\$\$@