

Year 8 Patterns Worksheet



1. Fill in the missing numbers to complete the pattern:
 - A. __, 6.16, __, 6.26, 6.31, 6.36
 - B. 4.7, 4.9, 5.1, __, __, 5.7
 - C. -1, -9, -81, __, -6,561, -59,049
 - D. 1, 7, 49, __, 2,401, 16,807

2. Larson's Hardware Store ordered 1 power drill in September, 4 power drills in October, 9 power drills in November, and 16 power drills in December. What kind of sequence is this?
 - A. arithmetic
 - B. geometric
 - C. both
 - D. neither

3. Cathy sent 576 pieces of mail in November, 625 pieces of mail in December, 676 pieces of mail in January, and 729 pieces of mail in February. What kind of sequence is this?
 - A. arithmetic
 - B. geometric
 - C. both
 - D. neither

4. What kind of sequence is this?

96, 77, 58, 39, ...

 - A. arithmetic
 - B. geometric
 - C. both
 - D. neither

Year 8 Patterns Worksheet



5. Lara put 2 cupcakes on the first tray, 4 cupcakes on the second tray, 8 cupcakes on the third tray, 16 cupcakes on the fourth tray, and 32 cupcakes on the fifth tray. If this pattern continues, how many cupcakes will Lara put on the sixth tray?

6. Camay Bakery made 6 carrot cakes in August, 12 carrot cakes in September, 18 carrot cakes in October, and 24 carrot cakes in November. If this pattern continues, how many carrot cakes will the bakery make in December?


7. A. 12 ___ 192 768
 B. 48 ___ 768 3072
 C. 22 ___ 88 176
 D. 28 112 ___ 1792
 E. ___ 32 128 512


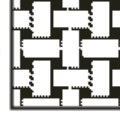
8. Pick the missing picture to complete each pattern.


1.




2.

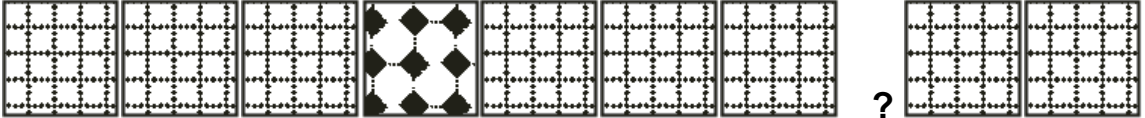
Year 8 Patterns Worksheet

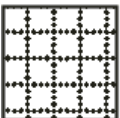

3. 

A  **B** 

4. 

A  **B**  **C** 

5. 

A  **B** 

9. Learn the following number of sequence and calculate the value of A and the value of B.

1	3	6	8	11	13	16	18	A	23	26	B
---	---	---	---	----	----	----	----	---	----	----	---

10. Learn the following number of sequence and calculate the value of P and the value of Q.

15	17	20	22	25	27	30	32	P	37	40	Q
----	----	----	----	----	----	----	----	---	----	----	---