



## Determining Pattern Rule

Name: \_\_\_\_\_

**Determine which choice best describes the rule the pattern is using.****Answers**

1) 1024, 256, 64, 16, 4

- A. Add 8  
B. Divide 4  
C. Multiply 8  
D. Divide 4

2) 3, 12, 48, 192

- A. Multiply 3  
B. Multiply 4  
C. Divide 10  
D. Multiply 10

Ex. **B**

3) 6, 11, 16, 21, 26

- A. Add 5  
B. Add 6  
C. Add 7  
D. Subtract 3

4) 8, 17, 26, 35, 44

- A. Divide 8  
B. Add 9  
C. Subtract 6  
D. Add 3

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

5) 128, 64, 32, 16, 8

- A. Subtract 4  
B. Divide 2  
C. Divide 7  
D. Multiply 9

6) 13, 11, 9, 7, 5

- A. Add 4  
B. Subtract 6  
C. Add 2  
D. Subtract 2

7) 875, 175, 35, 7

- A. Divide 5  
B. Multiply 2  
C. Divide 4  
D. Multiply 5

8) 1, 10, 19, 28, 37, 46

- A. Subtract 6  
B. Add 8  
C. Add 9  
D. Add 10

9) 9, 18, 36, 72

- A. Subtract 2  
B. Multiply 2  
C. Multiply 2  
D. Divide 8

10) 4, 16, 64, 256, 1024

- A. Multiply 4  
B. Multiply 2  
C. Add 2  
D. Multiply 4

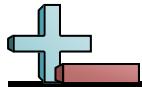
11) 5, 25, 125, 625

- A. Multiply 5  
B. Add 8  
C. Add 7  
D. Divide 2

12) 30, 23, 16, 9, 2

- A. Add 10  
B. Subtract 3  
C. Subtract 7  
D. Divide 3

|       |    |    |    |    |    |    |    |    |    |    |
|-------|----|----|----|----|----|----|----|----|----|----|
| 1-10  | 92 | 83 | 75 | 67 | 58 | 50 | 42 | 33 | 25 | 17 |
| 11-12 | 8  | 0  |    |    |    |    |    |    |    |    |



Determine which choice best describes the rule the pattern is using.

1) 1024, 256, 64, 16, 4

- A. Add 8
- B. Divide 4
- C. Multiply 8
- D. Divide 4

2) 3, 12, 48, 192

- A. Multiply 3
- B. Multiply 4
- C. Divide 10
- D. Multiply 10

**Answers**Ex. **B**1. **B**2. **B**3. **A**4. **B**5. **B**6. **D**7. **A**8. **C**9. **B**10. **A**11. **A**12. **C**

3) 6, 11, 16, 21, 26

- A. Add 5
- B. Add 6
- C. Add 7
- D. Subtract 3

4) 8, 17, 26, 35, 44

- A. Divide 8
- B. Add 9
- C. Subtract 6
- D. Add 3

5) 128, 64, 32, 16, 8

- A. Subtract 4
- B. Divide 2
- C. Divide 7
- D. Multiply 9

6) 13, 11, 9, 7, 5

- A. Add 4
- B. Subtract 6
- C. Add 2
- D. Subtract 2

7) 875, 175, 35, 7

- A. Divide 5
- B. Multiply 2
- C. Divide 4
- D. Multiply 5

8) 1, 10, 19, 28, 37, 46

- A. Subtract 6
- B. Add 8
- C. Add 9
- D. Add 10

9) 9, 18, 36, 72

- A. Subtract 2
- B. Multiply 2
- C. Multiply 2
- D. Divide 8

10) 4, 16, 64, 256, 1024

- A. Multiply 4
- B. Multiply 2
- C. Add 2
- D. Multiply 4

11) 5, 25, 125, 625

- A. Multiply 5
- B. Add 8
- C. Add 7
- D. Divide 2

12) 30, 23, 16, 9, 2

- A. Add 10
- B. Subtract 3
- C. Subtract 7
- D. Divide 3

|       |    |    |    |    |    |    |    |    |    |    |
|-------|----|----|----|----|----|----|----|----|----|----|
| 1-10  | 92 | 83 | 75 | 67 | 58 | 50 | 42 | 33 | 25 | 17 |
| 11-12 | 8  | 0  |    |    |    |    |    |    |    |    |