



Find the rule the pattern is using.

Ex) 8, 24, 72, 216      Rule =     Multiply 3    

1) 11, 9, 7, 5, 3      Rule = \_\_\_\_\_

2) 52, 43, 34, 25, 16, 7      Rule = \_\_\_\_\_

3) 64, 54, 44, 34, 24, 14, 4      Rule = \_\_\_\_\_

4) 3, 13, 23, 33, 43      Rule = \_\_\_\_\_

5) 9, 18, 27, 36, 45      Rule = \_\_\_\_\_

6) 512, 128, 32, 8, 2      Rule = \_\_\_\_\_

7) 7, 21, 63, 189      Rule = \_\_\_\_\_

8) 1125, 225, 45, 9      Rule = \_\_\_\_\_

9) 10, 13, 16, 19, 22      Rule = \_\_\_\_\_

10) 8, 16, 32, 64      Rule = \_\_\_\_\_

11) 448, 112, 28, 7      Rule = \_\_\_\_\_

12) 5, 20, 80, 320, 1280      Rule = \_\_\_\_\_

13) 29, 26, 23, 20, 17, 14, 11, 8      Rule = \_\_\_\_\_

14) 375, 75, 15, 3      Rule = \_\_\_\_\_

15) 3, 9, 15, 21, 27      Rule = \_\_\_\_\_

**Answers**

Ex.     Multiply 3    

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

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

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

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

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

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

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

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

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

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

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

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

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_



Find the rule the pattern is using.

- Ex) 8, 24, 72, 216      Rule = Multiply 3
- 1) 11, 9, 7, 5, 3      Rule = Subtract 2
- 2) 52, 43, 34, 25, 16, 7      Rule = Subtract 9
- 3) 64, 54, 44, 34, 24, 14, 4      Rule = Subtract 10
- 4) 3, 13, 23, 33, 43      Rule = Add 10
- 5) 9, 18, 27, 36, 45      Rule = Add 9
- 6) 512, 128, 32, 8, 2      Rule = Divide 4
- 7) 7, 21, 63, 189      Rule = Multiply 3
- 8) 1125, 225, 45, 9      Rule = Divide 5
- 9) 10, 13, 16, 19, 22      Rule = Add 3
- 10) 8, 16, 32, 64      Rule = Multiply 2
- 11) 448, 112, 28, 7      Rule = Divide 4
- 12) 5, 20, 80, 320, 1280      Rule = Multiply 4
- 13) 29, 26, 23, 20, 17, 14, 11, 8      Rule = Subtract 3
- 14) 375, 75, 15, 3      Rule = Divide 5
- 15) 3, 9, 15, 21, 27      Rule = Add 6

Answers

- Ex. Multiply 3
1. Subtract 2
2. Subtract 9
3. Subtract 10
4. Add 10
5. Add 9
6. Divide 4
7. Multiply 3
8. Divide 5
9. Add 3
10. Multiply 2
11. Divide 4
12. Multiply 4
13. Subtract 3
14. Divide 5
15. Add 6



Find the rule the pattern is using.

Ex) 7, 21, 63, 189, 567      Rule = Multiply 3

1) 8, 14, 20, 26, 32, 38, 44      Rule = \_\_\_\_\_

2) 2, 6, 18, 54, 162      Rule = \_\_\_\_\_

3) 49, 40, 31, 22, 13, 4      Rule = \_\_\_\_\_

4) 32, 16, 8, 4, 2      Rule = \_\_\_\_\_

5) 4, 20, 100, 500, 2500      Rule = \_\_\_\_\_

6) 42, 36, 30, 24, 18, 12, 6      Rule = \_\_\_\_\_

7) 1, 5, 9, 13, 17, 21, 25, 29      Rule = \_\_\_\_\_

8) 405, 135, 45, 15, 5      Rule = \_\_\_\_\_

9) 48, 24, 12, 6, 3      Rule = \_\_\_\_\_

10) 384, 96, 24, 6      Rule = \_\_\_\_\_

11) 2, 10, 50, 250      Rule = \_\_\_\_\_

12) 2, 11, 20, 29, 38, 47      Rule = \_\_\_\_\_

13) 53, 45, 37, 29, 21, 13, 5      Rule = \_\_\_\_\_

14) 2, 12, 22, 32, 42, 52, 62      Rule = \_\_\_\_\_

15) 31, 24, 17, 10, 3      Rule = \_\_\_\_\_

Answers

Ex. Multiply 3

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

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

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

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

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

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

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

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

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

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

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

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

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_



Find the rule the pattern is using.

Ex) 7, 21, 63, 189, 567      Rule = Multiply 3

1) 8, 14, 20, 26, 32, 38, 44      Rule = Add 6

2) 2, 6, 18, 54, 162      Rule = Multiply 3

3) 49, 40, 31, 22, 13, 4      Rule = Subtract 9

4) 32, 16, 8, 4, 2      Rule = Divide 2

5) 4, 20, 100, 500, 2500      Rule = Multiply 5

6) 42, 36, 30, 24, 18, 12, 6      Rule = Subtract 6

7) 1, 5, 9, 13, 17, 21, 25, 29      Rule = Add 4

8) 405, 135, 45, 15, 5      Rule = Divide 3

9) 48, 24, 12, 6, 3      Rule = Divide 2

10) 384, 96, 24, 6      Rule = Divide 4

11) 2, 10, 50, 250      Rule = Multiply 5

12) 2, 11, 20, 29, 38, 47      Rule = Add 9

13) 53, 45, 37, 29, 21, 13, 5      Rule = Subtract 8

14) 2, 12, 22, 32, 42, 52, 62      Rule = Add 10

15) 31, 24, 17, 10, 3      Rule = Subtract 7

Answers

Ex. Multiply 3

1. Add 6

2. Multiply 3

3. Subtract 9

4. Divide 2

5. Multiply 5

6. Subtract 6

7. Add 4

8. Divide 3

9. Divide 2

10. Divide 4

11. Multiply 5

12. Add 9

13. Subtract 8

14. Add 10

15. Subtract 7



Find the rule the pattern is using.

Ex) 1000 , 200 , 40 , 8      Rule = Divide 5

1) 2 , 8 , 32 , 128 , 512      Rule = \_\_\_\_\_

2) 55 , 46 , 37 , 28 , 19 , 10 , 1      Rule = \_\_\_\_\_

3) 54 , 18 , 6 , 2      Rule = \_\_\_\_\_

4) 58 , 49 , 40 , 31 , 22 , 13 , 4      Rule = \_\_\_\_\_

5) 24 , 12 , 6 , 3      Rule = \_\_\_\_\_

6) 4 , 7 , 10 , 13 , 16 , 19 , 22 , 25      Rule = \_\_\_\_\_

7) 26 , 20 , 14 , 8 , 2      Rule = \_\_\_\_\_

8) 448 , 112 , 28 , 7      Rule = \_\_\_\_\_

9) 22 , 18 , 14 , 10 , 6      Rule = \_\_\_\_\_

10) 5 , 15 , 45 , 135      Rule = \_\_\_\_\_

11) 5 , 20 , 80 , 320      Rule = \_\_\_\_\_

12) 1 , 8 , 15 , 22 , 29 , 36      Rule = \_\_\_\_\_

13) 9 , 18 , 27 , 36 , 45 , 54      Rule = \_\_\_\_\_

14) 2 , 10 , 50 , 250 , 1250      Rule = \_\_\_\_\_

15) 2 , 9 , 16 , 23 , 30      Rule = \_\_\_\_\_

**Answers**

Ex. Divide 5

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

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

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

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

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

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

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

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

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

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

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

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

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_



Find the rule the pattern is using.

Ex) 1000 , 200 , 40 , 8      Rule = Divide 5

1) 2 , 8 , 32 , 128 , 512      Rule = Multiply 4

2) 55 , 46 , 37 , 28 , 19 , 10 , 1      Rule = Subtract 9

3) 54 , 18 , 6 , 2      Rule = Divide 3

4) 58 , 49 , 40 , 31 , 22 , 13 , 4      Rule = Subtract 9

5) 24 , 12 , 6 , 3      Rule = Divide 2

6) 4 , 7 , 10 , 13 , 16 , 19 , 22 , 25      Rule = Add 3

7) 26 , 20 , 14 , 8 , 2      Rule = Subtract 6

8) 448 , 112 , 28 , 7      Rule = Divide 4

9) 22 , 18 , 14 , 10 , 6      Rule = Subtract 4

10) 5 , 15 , 45 , 135      Rule = Multiply 3

11) 5 , 20 , 80 , 320      Rule = Multiply 4

12) 1 , 8 , 15 , 22 , 29 , 36      Rule = Add 7

13) 9 , 18 , 27 , 36 , 45 , 54      Rule = Add 9

14) 2 , 10 , 50 , 250 , 1250      Rule = Multiply 5

15) 2 , 9 , 16 , 23 , 30      Rule = Add 7

Answers

Ex. Divide 5

1. Multiply 4

2. Subtract 9

3. Divide 3

4. Subtract 9

5. Divide 2

6. Add 3

7. Subtract 6

8. Divide 4

9. Subtract 4

10. Multiply 3

11. Multiply 4

12. Add 7

13. Add 9

14. Multiply 5

15. Add 7



Find the rule the pattern is using.

Ex) 7, 12, 17, 22, 27, 32      Rule =       Add 5      

1) 29, 24, 19, 14, 9      Rule = \_\_\_\_\_

2) 49, 41, 33, 25, 17, 9, 1      Rule = \_\_\_\_\_

3) 9, 15, 21, 27, 33      Rule = \_\_\_\_\_

4) 73, 64, 55, 46, 37, 28, 19, 10      Rule = \_\_\_\_\_

5) 8, 16, 32, 64, 128      Rule = \_\_\_\_\_

6) 4, 8, 16, 32, 64      Rule = \_\_\_\_\_

7) 1024, 256, 64, 16, 4      Rule = \_\_\_\_\_

8) 162, 54, 18, 6, 2      Rule = \_\_\_\_\_

9) 17, 14, 11, 8, 5      Rule = \_\_\_\_\_

10) 6, 30, 150, 750      Rule = \_\_\_\_\_

11) 1, 5, 9, 13, 17      Rule = \_\_\_\_\_

12) 5, 10, 20, 40, 80      Rule = \_\_\_\_\_

13) 32, 16, 8, 4      Rule = \_\_\_\_\_

14) 10, 18, 26, 34, 42, 50      Rule = \_\_\_\_\_

15) 250, 50, 10, 2      Rule = \_\_\_\_\_

**Answers**

Ex.       Add 5      

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

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

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

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

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

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

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

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

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

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

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

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

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_



Find the rule the pattern is using.

Ex) 7, 12, 17, 22, 27, 32      Rule =     Add 5    

1) 29, 24, 19, 14, 9      Rule =     Subtract 5    

2) 49, 41, 33, 25, 17, 9, 1      Rule =     Subtract 8    

3) 9, 15, 21, 27, 33      Rule =     Add 6    

4) 73, 64, 55, 46, 37, 28, 19, 10      Rule =     Subtract 9    

5) 8, 16, 32, 64, 128      Rule =     Multiply 2    

6) 4, 8, 16, 32, 64      Rule =     Multiply 2    

7) 1024, 256, 64, 16, 4      Rule =     Divide 4    

8) 162, 54, 18, 6, 2      Rule =     Divide 3    

9) 17, 14, 11, 8, 5      Rule =     Subtract 3    

10) 6, 30, 150, 750      Rule =     Multiply 5    

11) 1, 5, 9, 13, 17      Rule =     Add 4    

12) 5, 10, 20, 40, 80      Rule =     Multiply 2    

13) 32, 16, 8, 4      Rule =     Divide 2    

14) 10, 18, 26, 34, 42, 50      Rule =     Add 8    

15) 250, 50, 10, 2      Rule =     Divide 5    

Answers

Ex.     Add 5    

1.     Subtract 5    

2.     Subtract 8    

3.     Add 6    

4.     Subtract 9    

5.     Multiply 2    

6.     Multiply 2    

7.     Divide 4    

8.     Divide 3    

9.     Subtract 3    

10.     Multiply 5    

11.     Add 4    

12.     Multiply 2    

13.     Divide 2    

14.     Add 8    

15.     Divide 5





Find the rule the pattern is using.

Ex) 3, 10, 17, 24, 31, 38      Rule =     Add 7    

1) 67, 58, 49, 40, 31, 22, 13, 4      Rule = \_\_\_\_\_

2) 320, 80, 20, 5      Rule = \_\_\_\_\_

3) 7, 13, 19, 25, 31, 37      Rule = \_\_\_\_\_

4) 1125, 225, 45, 9      Rule = \_\_\_\_\_

5) 8, 16, 32, 64, 128      Rule = \_\_\_\_\_

6) 3, 6, 12, 24, 48      Rule = \_\_\_\_\_

7) 7, 10, 13, 16, 19      Rule = \_\_\_\_\_

8) 53, 43, 33, 23, 13, 3      Rule = \_\_\_\_\_

9) 63, 54, 45, 36, 27, 18, 9      Rule = \_\_\_\_\_

10) 4375, 875, 175, 35, 7      Rule = \_\_\_\_\_

11) 12, 10, 8, 6, 4, 2      Rule = \_\_\_\_\_

12) 256, 64, 16, 4      Rule = \_\_\_\_\_

13) 4, 8, 12, 16, 20, 24      Rule = \_\_\_\_\_

14) 3, 15, 75, 375      Rule = \_\_\_\_\_

15) 3, 6, 12, 24      Rule = \_\_\_\_\_

**Answers**

Ex.     Add 7    

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

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

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

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

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

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

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

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

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

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

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

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

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_



Find the rule the pattern is using.

Ex) 3, 10, 17, 24, 31, 38      Rule =     Add 7    

1) 67, 58, 49, 40, 31, 22, 13, 4      Rule =     Subtract 9    

2) 320, 80, 20, 5      Rule =     Divide 4    

3) 7, 13, 19, 25, 31, 37      Rule =     Add 6    

4) 1125, 225, 45, 9      Rule =     Divide 5    

5) 8, 16, 32, 64, 128      Rule =     Multiply 2    

6) 3, 6, 12, 24, 48      Rule =     Multiply 2    

7) 7, 10, 13, 16, 19      Rule =     Add 3    

8) 53, 43, 33, 23, 13, 3      Rule =     Subtract 10    

9) 63, 54, 45, 36, 27, 18, 9      Rule =     Subtract 9    

10) 4375, 875, 175, 35, 7      Rule =     Divide 5    

11) 12, 10, 8, 6, 4, 2      Rule =     Subtract 2    

12) 256, 64, 16, 4      Rule =     Divide 4    

13) 4, 8, 12, 16, 20, 24      Rule =     Add 4    

14) 3, 15, 75, 375      Rule =     Multiply 5    

15) 3, 6, 12, 24      Rule =     Multiply 2    

Answers

Ex.     Add 7    

1.     Subtract 9    

2.     Divide 4    

3.     Add 6    

4.     Divide 5    

5.     Multiply 2    

6.     Multiply 2    

7.     Add 3    

8.     Subtract 10    

9.     Subtract 9    

10.     Divide 5    

11.     Subtract 2    

12.     Divide 4    

13.     Add 4    

14.     Multiply 5    

15.     Multiply 2



Find the rule the pattern is using.

Ex) 80 , 40 , 20 , 10 , 5      Rule = Divide 2

1) 7 , 35 , 175 , 875 , 4375      Rule = \_\_\_\_\_

2) 5 , 8 , 11 , 14 , 17 , 20 , 23 , 26      Rule = \_\_\_\_\_

3) 5 , 14 , 23 , 32 , 41 , 50      Rule = \_\_\_\_\_

4) 4 , 16 , 64 , 256      Rule = \_\_\_\_\_

5) 7 , 21 , 63 , 189      Rule = \_\_\_\_\_

6) 1 , 8 , 15 , 22 , 29      Rule = \_\_\_\_\_

7) 8 , 13 , 18 , 23 , 28 , 33 , 38      Rule = \_\_\_\_\_

8) 96 , 48 , 24 , 12 , 6      Rule = \_\_\_\_\_

9) 48 , 24 , 12 , 6 , 3      Rule = \_\_\_\_\_

10) 8 , 32 , 128 , 512      Rule = \_\_\_\_\_

11) 46 , 40 , 34 , 28 , 22 , 16 , 10      Rule = \_\_\_\_\_

12) 37 , 28 , 19 , 10 , 1      Rule = \_\_\_\_\_

13) 47 , 39 , 31 , 23 , 15 , 7      Rule = \_\_\_\_\_

14) 375 , 75 , 15 , 3      Rule = \_\_\_\_\_

15) 31 , 28 , 25 , 22 , 19 , 16 , 13 , 10      Rule = \_\_\_\_\_

**Answers**

Ex. Divide 2

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

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

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

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

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

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

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

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

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

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

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

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

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_



Find the rule the pattern is using.

- Ex) 80 , 40 , 20 , 10 , 5      Rule = Divide 2
- 1) 7 , 35 , 175 , 875 , 4375      Rule = Multiply 5
- 2) 5 , 8 , 11 , 14 , 17 , 20 , 23 , 26      Rule = Add 3
- 3) 5 , 14 , 23 , 32 , 41 , 50      Rule = Add 9
- 4) 4 , 16 , 64 , 256      Rule = Multiply 4
- 5) 7 , 21 , 63 , 189      Rule = Multiply 3
- 6) 1 , 8 , 15 , 22 , 29      Rule = Add 7
- 7) 8 , 13 , 18 , 23 , 28 , 33 , 38      Rule = Add 5
- 8) 96 , 48 , 24 , 12 , 6      Rule = Divide 2
- 9) 48 , 24 , 12 , 6 , 3      Rule = Divide 2
- 10) 8 , 32 , 128 , 512      Rule = Multiply 4
- 11) 46 , 40 , 34 , 28 , 22 , 16 , 10      Rule = Subtract 6
- 12) 37 , 28 , 19 , 10 , 1      Rule = Subtract 9
- 13) 47 , 39 , 31 , 23 , 15 , 7      Rule = Subtract 8
- 14) 375 , 75 , 15 , 3      Rule = Divide 5
- 15) 31 , 28 , 25 , 22 , 19 , 16 , 13 , 10      Rule = Subtract 3

Answers

- Ex. Divide 2
1. Multiply 5
2. Add 3
3. Add 9
4. Multiply 4
5. Multiply 3
6. Add 7
7. Add 5
8. Divide 2
9. Divide 2
10. Multiply 4
11. Subtract 6
12. Subtract 9
13. Subtract 8
14. Divide 5
15. Subtract 3



Find the rule the pattern is using.

Ex) 4, 12, 20, 28, 36      Rule =     Add 8    

1) 30, 25, 20, 15, 10, 5      Rule = \_\_\_\_\_

2) 10, 15, 20, 25, 30, 35, 40      Rule = \_\_\_\_\_

3) 16, 14, 12, 10, 8, 6      Rule = \_\_\_\_\_

4) 2, 6, 18, 54      Rule = \_\_\_\_\_

5) 625, 125, 25, 5      Rule = \_\_\_\_\_

6) 243, 81, 27, 9      Rule = \_\_\_\_\_

7) 8, 16, 32, 64      Rule = \_\_\_\_\_

8) 9, 18, 36, 72, 144      Rule = \_\_\_\_\_

9) 40, 34, 28, 22, 16, 10      Rule = \_\_\_\_\_

10) 32, 16, 8, 4      Rule = \_\_\_\_\_

11) 1, 10, 19, 28, 37, 46, 55      Rule = \_\_\_\_\_

12) 62, 52, 42, 32, 22, 12, 2      Rule = \_\_\_\_\_

13) 48, 24, 12, 6, 3      Rule = \_\_\_\_\_

14) 8, 15, 22, 29, 36, 43, 50, 57      Rule = \_\_\_\_\_

15) 5, 20, 80, 320      Rule = \_\_\_\_\_

**Answers**

Ex.     Add 8    

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

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

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

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

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

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

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

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

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

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

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

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

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_



Find the rule the pattern is using.

Ex) 4, 12, 20, 28, 36      Rule =     Add 8    

1) 30, 25, 20, 15, 10, 5      Rule =     Subtract 5    

2) 10, 15, 20, 25, 30, 35, 40      Rule =     Add 5    

3) 16, 14, 12, 10, 8, 6      Rule =     Subtract 2    

4) 2, 6, 18, 54      Rule =     Multiply 3    

5) 625, 125, 25, 5      Rule =     Divide 5    

6) 243, 81, 27, 9      Rule =     Divide 3    

7) 8, 16, 32, 64      Rule =     Multiply 2    

8) 9, 18, 36, 72, 144      Rule =     Multiply 2    

9) 40, 34, 28, 22, 16, 10      Rule =     Subtract 6    

10) 32, 16, 8, 4      Rule =     Divide 2    

11) 1, 10, 19, 28, 37, 46, 55      Rule =     Add 9    

12) 62, 52, 42, 32, 22, 12, 2      Rule =     Subtract 10    

13) 48, 24, 12, 6, 3      Rule =     Divide 2    

14) 8, 15, 22, 29, 36, 43, 50, 57      Rule =     Add 7    

15) 5, 20, 80, 320      Rule =     Multiply 4    

Answers

Ex.     Add 8    

1.     Subtract 5    

2.     Add 5    

3.     Subtract 2    

4.     Multiply 3    

5.     Divide 5    

6.     Divide 3    

7.     Multiply 2    

8.     Multiply 2    

9.     Subtract 6    

10.     Divide 2    

11.     Add 9    

12.     Subtract 10    

13.     Divide 2    

14.     Add 7    

15.     Multiply 4



Find the rule the pattern is using.

Ex) 20, 16, 12, 8, 4      Rule = Subtract 4

1) 9, 15, 21, 27, 33      Rule = \_\_\_\_\_

2) 32, 26, 20, 14, 8, 2      Rule = \_\_\_\_\_

3) 43, 36, 29, 22, 15, 8      Rule = \_\_\_\_\_

4) 375, 75, 15, 3      Rule = \_\_\_\_\_

5) 2, 4, 8, 16      Rule = \_\_\_\_\_

6) 31, 26, 21, 16, 11, 6, 1      Rule = \_\_\_\_\_

7) 7, 35, 175, 875      Rule = \_\_\_\_\_

8) 162, 54, 18, 6      Rule = \_\_\_\_\_

9) 4, 8, 16, 32, 64      Rule = \_\_\_\_\_

10) 4, 8, 12, 16, 20      Rule = \_\_\_\_\_

11) 512, 128, 32, 8      Rule = \_\_\_\_\_

12) 2, 6, 18, 54      Rule = \_\_\_\_\_

13) 4, 11, 18, 25, 32, 39      Rule = \_\_\_\_\_

14) 1280, 320, 80, 20, 5      Rule = \_\_\_\_\_

15) 7, 16, 25, 34, 43, 52      Rule = \_\_\_\_\_

**Answers**

Ex. Subtract 4

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

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

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

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

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

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

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

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

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

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

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

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

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_



Find the rule the pattern is using.

Ex) 20, 16, 12, 8, 4      Rule = Subtract 4

1) 9, 15, 21, 27, 33      Rule = Add 6

2) 32, 26, 20, 14, 8, 2      Rule = Subtract 6

3) 43, 36, 29, 22, 15, 8      Rule = Subtract 7

4) 375, 75, 15, 3      Rule = Divide 5

5) 2, 4, 8, 16      Rule = Multiply 2

6) 31, 26, 21, 16, 11, 6, 1      Rule = Subtract 5

7) 7, 35, 175, 875      Rule = Multiply 5

8) 162, 54, 18, 6      Rule = Divide 3

9) 4, 8, 16, 32, 64      Rule = Multiply 2

10) 4, 8, 12, 16, 20      Rule = Add 4

11) 512, 128, 32, 8      Rule = Divide 4

12) 2, 6, 18, 54      Rule = Multiply 3

13) 4, 11, 18, 25, 32, 39      Rule = Add 7

14) 1280, 320, 80, 20, 5      Rule = Divide 4

15) 7, 16, 25, 34, 43, 52      Rule = Add 9

Answers

Ex. Subtract 4

1. Add 6

2. Subtract 6

3. Subtract 7

4. Divide 5

5. Multiply 2

6. Subtract 5

7. Multiply 5

8. Divide 3

9. Multiply 2

10. Add 4

11. Divide 4

12. Multiply 3

13. Add 7

14. Divide 4

15. Add 9





Find the rule the pattern is using.

- Ex) 5, 13, 21, 29, 37, 45, 53      Rule =     Add 8
- 1) 7, 35, 175, 875, 4375      Rule = \_\_\_\_\_
- 2) 7, 11, 15, 19, 23, 27      Rule = \_\_\_\_\_
- 3) 49, 41, 33, 25, 17, 9, 1      Rule = \_\_\_\_\_
- 4) 2, 4, 8, 16, 32      Rule = \_\_\_\_\_
- 5) 47, 40, 33, 26, 19, 12, 5      Rule = \_\_\_\_\_
- 6) 1000, 200, 40, 8      Rule = \_\_\_\_\_
- 7) 16, 8, 4, 2      Rule = \_\_\_\_\_
- 8) 8, 10, 12, 14, 16, 18, 20      Rule = \_\_\_\_\_
- 9) 216, 72, 24, 8      Rule = \_\_\_\_\_
- 10) 9, 18, 36, 72, 144      Rule = \_\_\_\_\_
- 11) 1875, 375, 75, 15, 3      Rule = \_\_\_\_\_
- 12) 31, 24, 17, 10, 3      Rule = \_\_\_\_\_
- 13) 3, 9, 15, 21, 27, 33, 39, 45      Rule = \_\_\_\_\_
- 14) 46, 39, 32, 25, 18, 11, 4      Rule = \_\_\_\_\_
- 15) 8, 24, 72, 216      Rule = \_\_\_\_\_

**Answers**

- Ex.     Add 8
- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_
- 11. \_\_\_\_\_
- 12. \_\_\_\_\_
- 13. \_\_\_\_\_
- 14. \_\_\_\_\_
- 15. \_\_\_\_\_



Find the rule the pattern is using.

- Ex) 5, 13, 21, 29, 37, 45, 53      Rule =     Add 8
- 1) 7, 35, 175, 875, 4375      Rule =     Multiply 5
- 2) 7, 11, 15, 19, 23, 27      Rule =     Add 4
- 3) 49, 41, 33, 25, 17, 9, 1      Rule =     Subtract 8
- 4) 2, 4, 8, 16, 32      Rule =     Multiply 2
- 5) 47, 40, 33, 26, 19, 12, 5      Rule =     Subtract 7
- 6) 1000, 200, 40, 8      Rule =     Divide 5
- 7) 16, 8, 4, 2      Rule =     Divide 2
- 8) 8, 10, 12, 14, 16, 18, 20      Rule =     Add 2
- 9) 216, 72, 24, 8      Rule =     Divide 3
- 10) 9, 18, 36, 72, 144      Rule =     Multiply 2
- 11) 1875, 375, 75, 15, 3      Rule =     Divide 5
- 12) 31, 24, 17, 10, 3      Rule =     Subtract 7
- 13) 3, 9, 15, 21, 27, 33, 39, 45      Rule =     Add 6
- 14) 46, 39, 32, 25, 18, 11, 4      Rule =     Subtract 7
- 15) 8, 24, 72, 216      Rule =     Multiply 3

Answers

- Ex.     Add 8
1.     Multiply 5
2.     Add 4
3.     Subtract 8
4.     Multiply 2
5.     Subtract 7
6.     Divide 5
7.     Divide 2
8.     Add 2
9.     Divide 3
10.     Multiply 2
11.     Divide 5
12.     Subtract 7
13.     Add 6
14.     Subtract 7
15.     Multiply 3



Find the rule the pattern is using.

- Ex) 64, 32, 16, 8      Rule = Divide 2
- 1) 3, 7, 11, 15, 19, 23, 27      Rule = \_\_\_\_\_
- 2) 38, 29, 20, 11, 2      Rule = \_\_\_\_\_
- 3) 31, 28, 25, 22, 19, 16, 13, 10      Rule = \_\_\_\_\_
- 4) 6, 18, 54, 162      Rule = \_\_\_\_\_
- 5) 96, 48, 24, 12, 6      Rule = \_\_\_\_\_
- 6) 8, 12, 16, 20, 24, 28, 32      Rule = \_\_\_\_\_
- 7) 31, 24, 17, 10, 3      Rule = \_\_\_\_\_
- 8) 2, 8, 14, 20, 26      Rule = \_\_\_\_\_
- 9) 768, 192, 48, 12, 3      Rule = \_\_\_\_\_
- 10) 2, 10, 50, 250      Rule = \_\_\_\_\_
- 11) 875, 175, 35, 7      Rule = \_\_\_\_\_
- 12) 8, 15, 22, 29, 36, 43      Rule = \_\_\_\_\_
- 13) 7, 21, 63, 189      Rule = \_\_\_\_\_
- 14) 33, 27, 21, 15, 9      Rule = \_\_\_\_\_
- 15) 7, 21, 63, 189, 567      Rule = \_\_\_\_\_

**Answers**

- Ex. Divide 2
1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_



Find the rule the pattern is using.

- Ex) 64, 32, 16, 8      Rule = Divide 2
- 1) 3, 7, 11, 15, 19, 23, 27      Rule = Add 4
- 2) 38, 29, 20, 11, 2      Rule = Subtract 9
- 3) 31, 28, 25, 22, 19, 16, 13, 10      Rule = Subtract 3
- 4) 6, 18, 54, 162      Rule = Multiply 3
- 5) 96, 48, 24, 12, 6      Rule = Divide 2
- 6) 8, 12, 16, 20, 24, 28, 32      Rule = Add 4
- 7) 31, 24, 17, 10, 3      Rule = Subtract 7
- 8) 2, 8, 14, 20, 26      Rule = Add 6
- 9) 768, 192, 48, 12, 3      Rule = Divide 4
- 10) 2, 10, 50, 250      Rule = Multiply 5
- 11) 875, 175, 35, 7      Rule = Divide 5
- 12) 8, 15, 22, 29, 36, 43      Rule = Add 7
- 13) 7, 21, 63, 189      Rule = Multiply 3
- 14) 33, 27, 21, 15, 9      Rule = Subtract 6
- 15) 7, 21, 63, 189, 567      Rule = Multiply 3

Answers

- Ex. Divide 2
1. Add 4
2. Subtract 9
3. Subtract 3
4. Multiply 3
5. Divide 2
6. Add 4
7. Subtract 7
8. Add 6
9. Divide 4
10. Multiply 5
11. Divide 5
12. Add 7
13. Multiply 3
14. Subtract 6
15. Multiply 3