# Expanding Perfect Squares

Name:

**Expand the expression.**

**1)** $(x - 2)^2$

**2)** $(x - 11)^2$

**3)** $(x + 3)^2$

**4)** $(x - 5)^2$

**5)** $(x + 5)^2$

**6)** $(x + 1)^2$

**7)** $(x - 10)^2$

**8)** $(x - 3)^2$

**9)** $(x - 1)^2$

**10)** $(x - 8)^2$

**11)** $(x - 6)^2$

**12)** $(x + 4)^2$

**13)** $(x + 9)^2$

**14)** $(x + 6)^2$

**15)** $(x + 7)^2$

**16)** $(x + 8)^2$

**17)** $(x + 10)^2$

**18)** $(x + 11)^2$

**19)** $(x - 12)^2$

**20)** $(x - 4)^2$

## Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-10 | 95 | 90 | 85 | 80 | 75 | 70 | 65 | 60 | 55 | 50 |
| 11-20 | 45 | 40 | 35 | 30 | 25 | 20 | 15 | 10 | 5 | 0 |

Expanding Perfect Squares

Name: **Answer Key**

**Expand the expression.**

**1)** $(x - 2)^2$

**2)** $(x - 11)^2$

**3)** $(x + 3)^2$

**4)** $(x - 5)^2$

**5)** $(x + 5)^2$

**6)** $(x + 1)^2$

**7)** $(x - 10)^2$

**8)** $(x - 3)^2$

**9)** $(x - 1)^2$

**10)** $(x - 8)^2$

**11)** $(x - 6)^2$

**12)** $(x + 4)^2$

**13)** $(x + 9)^2$

**14)** $(x + 6)^2$

**15)** $(x + 7)^2$

**16)** $(x + 8)^2$

**17)** $(x + 10)^2$

**18)** $(x + 11)^2$

**19)** $(x - 12)^2$

**20)** $(x - 4)^2$

**Answers**

1. $x^2-4x+4$
2. $x^2-22x+121$
3. $x^2+6x+9$
4. $x^2-10x+25$
5. $x^2+10x+25$
6. $x^2+2x+1$
7. $x^2-20x+100$
8. $x^2-6x+9$
9. $x^2-2x+1$
10. $x^2-16x+64$
11. $x^2-12x+36$
12. $x^2+8x+16$
13. $x^2+18x+81$
14. $x^2+12x+36$
15. $x^2+14x+49$
16. $x^2+16x+64$
17. $x^2+20x+100$
18. $x^2+22x+121$
19. $x^2-24x+144$
20. $x^2-8x+16$



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-10 | 95 | 90 | 85 | 80 | 75 | 70 | 65 | 60 | 55 | 50 |
| 11-20 | 45 | 40 | 35 | 30 | 25 | 20 | 15 | 10 | 5 | 0 |

# Expanding Perfect Squares

Name:

**Expand the expression.**

**1)** $(x + 2)^2$

**2)** $(x -4)^2$

**3)** $(x -6)^2$

**4)** $(x -8)^2$

**5)** $(x -1)^2$

**6)** $(x + 3)^2$

**7)** $(x -12)^2$

**8)** $(x + 6)^2$

**9)** $(x + 11)^2$

**10)** $(x + 7)^2$

**11)** $(x + 4)^2$

**12)** $(x + 5)^2$

**13)** $(x + 12)^2$

**14)** $(x -5)^2$

**15)** $(x + 10)^2$

**16)** $(x + 1)^2$

**17)** $(x + 9)^2$

**18)** $(x -3)^2$

**19)** $(x -11)^2$

**20)** $(x -7)^2$

**Answers**

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-10 | 95 | 90 | 85 | 80 | 75 | 70 | 65 | 60 | 55 | 50 |
| 11-20 | 45 | 40 | 35 | 30 | 25 | 20 | 15 | 10 | 5 | 0 |

Expanding Perfect Squares

Name: **Answer Key**

**Expand the expression.**

**1)** $(x + 2)^2$

**2)** $(x -4)^2$

**3)** $(x -6)^2$

**4)** $(x -8)^2$

**5)** $(x -1)^2$

**6)** $(x + 3)^2$

**7)** $(x -12)^2$

**8)** $(x + 6)^2$

**9)** $(x + 11)^2$

**10)** $(x + 7)^2$

**11)** $(x + 4)^2$

**12)** $(x + 5)^2$

**13)** $(x + 12)^2$

**14)** $(x -5)^2$

**15)** $(x + 10)^2$

**16)** $(x + 1)^2$

**17)** $(x + 9)^2$

**18)** $(x -3)^2$

**19)** $(x -11)^2$

**20)** $(x -7)^2$

**Answers**

1. $x^2+4x+4$
2. $x^2-8x+16$
3. $x^2-12x+36$
4. $x^2-16x+64$
5. $x^2-2x+1$
6. $x^2+6x+9$
7. $x^2-24x+144$
8. $x^2+12x+36$
9. $x^2+22x+121$
10. $x^2+14x+49$
11. $x^2+8x+16$
12. $x^2+10x+25$
13. $x^2+24x+144$
14. $x^2-10x+25$
15. $x^2+20x+100$
16. $x^2+2x+1$
17. $x^2+18x+81$
18. $x^2-6x+9$
19. $x^2-22x+121$
20. $x^2-14x+49$



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-10 | 95 | 90 | 85 | 80 | 75 | 70 | 65 | 60 | 55 | 50 |
| 11-20 | 45 | 40 | 35 | 30 | 25 | 20 | 15 | 10 | 5 | 0 |

# Expanding Perfect Squares

Name:

**Expand the expression.**

**1)** $(x + 5)^2$

**2)** $(x -10)^2$

**3)** $(x -1)^2$

**4)** $(x -6)^2$

**5)** $(x -12)^2$

**6)** $(x + 7)^2$

**7)** $(x + 11)^2$

**8)** $(x + 4)^2$

**9)** $(x + 10)^2$

**10)** $(x -4)^2$

**11)** $(x + 2)^2$

**12)** $(x -7)^2$

**13)** $(x -5)^2$

**14)** $(x + 12)^2$

**15)** $(x + 9)^2$

**16)** $(x -3)^2$

**17)** $(x + 3)^2$

**18)** $(x + 8)^2$

**19)** $(x -11)^2$

**20)** $(x + 6)^2$

**Answers**

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-10 | 95 | 90 | 85 | 80 | 75 | 70 | 65 | 60 | 55 | 50 |
| 11-20 | 45 | 40 | 35 | 30 | 25 | 20 | 15 | 10 | 5 | 0 |

Expanding Perfect Squares

Name: **Answer Key**

**Expand the expression.**

**1)** $(x + 5)^2$

**2)** $(x -10)^2$

**3)** $(x -1)^2$

**4)** $(x -6)^2$

**5)** $(x -12)^2$

**6)** $(x + 7)^2$

**7)** $(x + 11)^2$

**8)** $(x + 4)^2$

**9)** $(x + 10)^2$

**10)** $(x -4)^2$

**11)** $(x + 2)^2$

**12)** $(x -7)^2$

**13)** $(x -5)^2$

**14)** $(x + 12)^2$

**15)** $(x + 9)^2$

**16)** $(x -3)^2$

**17)** $(x + 3)^2$

**18)** $(x + 8)^2$

**19)** $(x -11)^2$

**20)** $(x + 6)^2$

**Answers**

1. $x^2+10x+25$
2. $x^2-20x+100$
3. $x^2-2x+1$
4. $x^2-12x+36$
5. $x^2-24x+144$
6. $x^2+14x+49$
7. $x^2+22x+121$
8. $x^2+8x+16$
9. $x^2+20x+100$
10. $x^2-8x+16$
11. $x^2+4x+4$
12. $x^2-14x+49$
13. $x^2-10x+25$
14. $x^2+24x+144$
15. $x^2+18x+81$
16. $x^2-6x+9$
17. $x^2+6x+9$
18. $x^2+16x+64$
19. $x^2-22x+121$
20. $x^2+12x+36$



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-10 | 95 | 90 | 85 | 80 | 75 | 70 | 65 | 60 | 55 | 50 |
| 11-20 | 45 | 40 | 35 | 30 | 25 | 20 | 15 | 10 | 5 | 0 |

# Expanding Perfect Squares

Name:

**Expand the expression.**

**1)** $(x + 4)^2$

**2)** $(x + 6)^2$

**3)** $(x + 2)^2$

**4)** $(x -11)^2$

**5)** $(x -7)^2$

**6)** $(x + 5)^2$

**7)** $(x + 10)^2$

**8)** $(x -2)^2$

**9)** $(x -6)^2$

**10)** $(x -8)^2$

**11)** $(x + 11)^2$

**12)** $(x + 7)^2$

**13)** $(x -3)^2$

**14)** $(x -9)^2$

**15)** $(x + 1)^2$

**16)** $(x -1)^2$

**17)** $(x + 12)^2$

**18)** $(x -10)^2$

**19)** $(x -4)^2$

**20)** $(x -12)^2$

**Answers**

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
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20. _____



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
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| 11-20 | 45 | 40 | 35 | 30 | 25 | 20 | 15 | 10 | 5 | 0 |

Expanding Perfect Squares

Name: **Answer Key**

**Expand the expression.**

**1)** $(x + 4)^2$

**2)** $(x + 6)^2$

**3)** $(x + 2)^2$

**4)** $(x -11)^2$

**5)** $(x -7)^2$

**6)** $(x + 5)^2$

**7)** $(x + 10)^2$

**8)** $(x -2)^2$

**9)** $(x -6)^2$

**10)** $(x -8)^2$

**11)** $(x + 11)^2$

**12)** $(x + 7)^2$

**13)** $(x -3)^2$

**14)** $(x -9)^2$

**15)** $(x + 1)^2$

**16)** $(x -1)^2$

**17)** $(x + 12)^2$

**18)** $(x -10)^2$

**19)** $(x -4)^2$

**20)** $(x -12)^2$

**Answers**

1. $x^2+8x+16$
2. $x^2+12x+36$
3. $x^2+4x+4$
4. $x^2-22x+121$
5. $x^2-14x+49$
6. $x^2+10x+25$
7. $x^2+20x+100$
8. $x^2-4x+4$
9. $x^2-12x+36$
10. $x^2-16x+64$
11. $x^2+22x+121$
12. $x^2+14x+49$
13. $x^2-6x+9$
14. $x^2-18x+81$
15. $x^2+2x+1$
16. $x^2-2x+1$
17. $x^2+24x+144$
18. $x^2-20x+100$
19. $x^2-8x+16$
20. $x^2-24x+144$



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-10 | 95 | 90 | 85 | 80 | 75 | 70 | 65 | 60 | 55 | 50 |
| 11-20 | 45 | 40 | 35 | 30 | 25 | 20 | 15 | 10 | 5 | 0 |

# Expanding Perfect Squares

Name:

**Expand the expression.**

**1)** $(x - 10)^2$

**2)** $(x + 7)^2$

**3)** $(x + 2)^2$

**4)** $(x - 3)^2$

**5)** $(x - 11)^2$

**6)** $(x + 6)^2$

**7)** $(x - 12)^2$

**8)** $(x + 11)^2$

**9)** $(x + 1)^2$

**10)** $(x + 5)^2$

**11)** $(x + 4)^2$

**12)** $(x - 7)^2$

**13)** $(x - 4)^2$

**14)** $(x + 10)^2$

**15)** $(x - 8)^2$

**16)** $(x - 9)^2$

**17)** $(x - 5)^2$

**18)** $(x + 8)^2$

**19)** $(x - 2)^2$

**20)** $(x + 12)^2$

**Answers**

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-10 | 95 | 90 | 85 | 80 | 75 | 70 | 65 | 60 | 55 | 50 |
| 11-20 | 45 | 40 | 35 | 30 | 25 | 20 | 15 | 10 | 5 | 0 |

Expanding Perfect Squares

Name: **Answer Key**

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**1)** $(x - 10)^2$

**2)** $(x + 7)^2$

**3)** $(x + 2)^2$

**4)** $(x - 3)^2$

**5)** $(x - 11)^2$

**6)** $(x + 6)^2$

**7)** $(x - 12)^2$

**8)** $(x + 11)^2$

**9)** $(x + 1)^2$

**10)** $(x + 5)^2$

**11)** $(x + 4)^2$

**12)** $(x - 7)^2$

**13)** $(x - 4)^2$

**14)** $(x + 10)^2$

**15)** $(x - 8)^2$

**16)** $(x - 9)^2$

**17)** $(x - 5)^2$

**18)** $(x + 8)^2$

**19)** $(x - 2)^2$

**20)** $(x + 12)^2$

**Answers**

1. $x^2-20x+100$
2. $x^2+14x+49$
3. $x^2+4x+4$
4. $x^2-6x+9$
5. $x^2-22x+121$
6. $x^2+12x+36$
7. $x^2-24x+144$
8. $x^2+22x+121$
9. $x^2+2x+1$
10. $x^2+10x+25$
11. $x^2+8x+16$
12. $x^2-14x+49$
13. $x^2-8x+16$
14. $x^2+20x+100$
15. $x^2-16x+64$
16. $x^2-18x+81$
17. $x^2-10x+25$
18. $x^2+16x+64$
19. $x^2-4x+4$
20. $x^2+24x+144$



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-10 | 95 | 90 | 85 | 80 | 75 | 70 | 65 | 60 | 55 | 50 |
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# Expanding Perfect Squares

Name:

**Expand the expression.**

**1)** $(x - 1)^2$

**2)** $(x + 2)^2$

**3)** $(x - 9)^2$

**4)** $(x - 12)^2$

**5)** $(x + 6)^2$

**6)** $(x + 4)^2$

**7)** $(x + 3)^2$

**8)** $(x - 2)^2$

**9)** $(x + 12)^2$

**10)** $(x - 10)^2$

**11)** $(x + 1)^2$

**12)** $(x + 5)^2$

**13)** $(x - 11)^2$

**14)** $(x - 8)^2$

**15)** $(x - 5)^2$

**16)** $(x + 7)^2$

**17)** $(x - 3)^2$

**18)** $(x - 6)^2$

**19)** $(x - 7)^2$

**20)** $(x - 4)^2$

**Answers**

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
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| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
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**Expand the expression.**

**1)** $(x - 1)^2$

**2)** $(x + 2)^2$

**3)** $(x - 9)^2$

**4)** $(x - 12)^2$

**5)** $(x + 6)^2$

**6)** $(x + 4)^2$

**7)** $(x + 3)^2$

**8)** $(x - 2)^2$

**9)** $(x + 12)^2$

**10)** $(x - 10)^2$

**11)** $(x + 1)^2$

**12)** $(x + 5)^2$

**13)** $(x - 11)^2$

**14)** $(x - 8)^2$

**15)** $(x - 5)^2$

**16)** $(x + 7)^2$

**17)** $(x - 3)^2$

**18)** $(x - 6)^2$

**19)** $(x - 7)^2$

**20)** $(x - 4)^2$

**Answers**

1. $x^2-2x+1$
2. $x^2+4x+4$
3. $x^2-18x+81$
4. $x^2-24x+144$
5. $x^2+12x+36$
6. $x^2+8x+16$
7. $x^2+6x+9$
8. $x^2-4x+4$
9. $x^2+24x+144$
10. $x^2-20x+100$
11. $x^2+2x+1$
12. $x^2+10x+25$
13. $x^2-22x+121$
14. $x^2-16x+64$
15. $x^2-10x+25$
16. $x^2+14x+49$
17. $x^2-6x+9$
18. $x^2-12x+36$
19. $x^2-14x+49$
20. $x^2-8x+16$



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
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# Expanding Perfect Squares

Name:

**Expand the expression.**

**1)** $(x + 6)^2$

**2)** $(x -9)^2$

**3)** $(x + 11)^2$

**4)** $(x + 9)^2$

**5)** $(x + 8)^2$

**6)** $(x + 2)^2$

**7)** $(x -4)^2$

**8)** $(x + 7)^2$

**9)** $(x -6)^2$

**10)** $(x -7)^2$

**11)** $(x -8)^2$

**12)** $(x -12)^2$

**13)** $(x + 3)^2$

**14)** $(x + 1)^2$

**15)** $(x + 5)^2$

**16)** $(x + 10)^2$

**17)** $(x -10)^2$

**18)** $(x -5)^2$

**19)** $(x -3)^2$

**20)** $(x + 12)^2$

**Answers**

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
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Expanding Perfect Squares

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**2)** $(x -9)^2$

**3)** $(x + 11)^2$

**4)** $(x + 9)^2$

**5)** $(x + 8)^2$

**6)** $(x + 2)^2$

**7)** $(x -4)^2$

**8)** $(x + 7)^2$

**9)** $(x -6)^2$

**10)** $(x -7)^2$

**11)** $(x -8)^2$

**12)** $(x -12)^2$

**13)** $(x + 3)^2$

**14)** $(x + 1)^2$

**15)** $(x + 5)^2$

**16)** $(x + 10)^2$

**17)** $(x -10)^2$

**18)** $(x -5)^2$

**19)** $(x -3)^2$

**20)** $(x + 12)^2$

**Answers**

1. $x^2+12x+36$
2. $x^2-18x+81$
3. $x^2+22x+121$
4. $x^2+18x+81$
5. $x^2+16x+64$
6. $x^2+4x+4$
7. $x^2-8x+16$
8. $x^2+14x+49$
9. $x^2-12x+36$
10. $x^2-14x+49$
11. $x^2-16x+64$
12. $x^2-24x+144$
13. $x^2+6x+9$
14. $x^2+2x+1$
15. $x^2+10x+25$
16. $x^2+20x+100$
17. $x^2-20x+100$
18. $x^2-10x+25$
19. $x^2-6x+9$
20. $x^2+24x+144$



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-10 | 95 | 90 | 85 | 80 | 75 | 70 | 65 | 60 | 55 | 50 |
| 11-20 | 45 | 40 | 35 | 30 | 25 | 20 | 15 | 10 | 5 | 0 |

# Expanding Perfect Squares

Name:

**Expand the expression.**

**1)** $(x + 4)^2$

**2)** $(x + 10)^2$

**3)** $(x + 12)^2$

**4)** $(x + 11)^2$

**5)** $(x + 8)^2$

**6)** $(x -1)^2$

**7)** $(x + 9)^2$

**8)** $(x + 6)^2$

**9)** $(x -5)^2$

**10)** $(x -11)^2$

**11)** $(x -3)^2$

**12)** $(x -10)^2$

**13)** $(x -9)^2$

**14)** $(x -8)^2$

**15)** $(x + 2)^2$

**16)** $(x + 7)^2$

**17)** $(x + 5)^2$

**18)** $(x -12)^2$

**19)** $(x -4)^2$

**20)** $(x + 1)^2$

**Answers**

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-10 | 95 | 90 | 85 | 80 | 75 | 70 | 65 | 60 | 55 | 50 |
| 11-20 | 45 | 40 | 35 | 30 | 25 | 20 | 15 | 10 | 5 | 0 |

Expanding Perfect Squares

Name: **Answer Key**

**Expand the expression.**

**1)** $(x + 4)^2$

**2)** $(x + 10)^2$

**3)** $(x + 12)^2$

**4)** $(x + 11)^2$

**5)** $(x + 8)^2$

**6)** $(x -1)^2$

**7)** $(x + 9)^2$

**8)** $(x + 6)^2$

**9)** $(x -5)^2$

**10)** $(x -11)^2$

**11)** $(x -3)^2$

**12)** $(x -10)^2$

**13)** $(x -9)^2$

**14)** $(x -8)^2$

**15)** $(x + 2)^2$

**16)** $(x + 7)^2$

**17)** $(x + 5)^2$

**18)** $(x -12)^2$

**19)** $(x -4)^2$

**20)** $(x + 1)^2$

**Answers**

1. $x^2+8x+16$
2. $x^2+20x+100$
3. $x^2+24x+144$
4. $x^2+22x+121$
5. $x^2+16x+64$
6. $x^2-2x+1$
7. $x^2+18x+81$
8. $x^2+12x+36$
9. $x^2-10x+25$
10. $x^2-22x+121$
11. $x^2-6x+9$
12. $x^2-20x+100$
13. $x^2-18x+81$
14. $x^2-16x+64$
15. $x^2+4x+4$
16. $x^2+14x+49$
17. $x^2+10x+25$
18. $x^2-24x+144$
19. $x^2-8x+16$
20. $x^2+2x+1$



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-10 | 95 | 90 | 85 | 80 | 75 | 70 | 65 | 60 | 55 | 50 |
| 11-20 | 45 | 40 | 35 | 30 | 25 | 20 | 15 | 10 | 5 | 0 |

# Expanding Perfect Squares

Name:

**Expand the expression.**

**1)** $(x - 4)^2$

**2)** $(x - 7)^2$

**3)** $(x - 11)^2$

**4)** $(x - 9)^2$

**5)** $(x - 2)^2$

**6)** $(x - 8)^2$

**7)** $(x - 1)^2$

**8)** $(x + 1)^2$

**9)** $(x + 6)^2$

**10)** $(x + 7)^2$

**11)** $(x + 11)^2$

**12)** $(x + 2)^2$

**13)** $(x + 9)^2$

**14)** $(x - 12)^2$

**15)** $(x + 8)^2$

**16)** $(x + 10)^2$

**17)** $(x - 5)^2$

**18)** $(x + 4)^2$

**19)** $(x + 5)^2$

**20)** $(x - 3)^2$

**Answers**

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-10 | 95 | 90 | 85 | 80 | 75 | 70 | 65 | 60 | 55 | 50 |
| 11-20 | 45 | 40 | 35 | 30 | 25 | 20 | 15 | 10 | 5 | 0 |

Expanding Perfect Squares

Name: **Answer Key**

**Expand the expression.**

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**3)** $(x - 11)^2$

**4)** $(x - 9)^2$

**5)** $(x - 2)^2$

**6)** $(x - 8)^2$

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**8)** $(x + 1)^2$

**9)** $(x + 6)^2$

**10)** $(x + 7)^2$

**11)** $(x + 11)^2$

**12)** $(x + 2)^2$

**13)** $(x + 9)^2$

**14)** $(x - 12)^2$

**15)** $(x + 8)^2$

**16)** $(x + 10)^2$

**17)** $(x - 5)^2$

**18)** $(x + 4)^2$

**19)** $(x + 5)^2$

**20)** $(x - 3)^2$

**Answers**

1. $x^2-8x+16$
2. $x^2-14x+49$
3. $x^2-22x+121$
4. $x^2-18x+81$
5. $x^2-4x+4$
6. $x^2-16x+64$
7. $x^2-2x+1$
8. $x^2+2x+1$
9. $x^2+12x+36$
10. $x^2+14x+49$
11. $x^2+22x+121$
12. $x^2+4x+4$
13. $x^2+18x+81$
14. $x^2-24x+144$
15. $x^2+16x+64$
16. $x^2+20x+100$
17. $x^2-10x+25$
18. $x^2+8x+16$
19. $x^2+10x+25$
20. $x^2-6x+9$



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
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# Expanding Perfect Squares

Name:

**Expand the expression.**

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**2)** $(x - 8)^2$

**3)** $(x - 6)^2$

**4)** $(x - 10)^2$

**5)** $(x - 12)^2$

**6)** $(x + 1)^2$

**7)** $(x + 6)^2$

**8)** $(x + 3)^2$

**9)** $(x + 8)^2$

**10)** $(x + 7)^2$

**11)** $(x + 11)^2$

**12)** $(x - 4)^2$

**13)** $(x - 5)^2$

**14)** $(x - 3)^2$

**15)** $(x + 2)^2$

**16)** $(x - 11)^2$

**17)** $(x - 7)^2$

**18)** $(x + 10)^2$

**19)** $(x - 1)^2$

**20)** $(x + 9)^2$

**Answers**

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-10 | 95 | 90 | 85 | 80 | 75 | 70 | 65 | 60 | 55 | 50 |
| 11-20 | 45 | 40 | 35 | 30 | 25 | 20 | 15 | 10 | 5 | 0 |

Expanding Perfect Squares

Name: **Answer Key**

**Expand the expression.**

**1)** $(x - 9)^2$

**2)** $(x - 8)^2$

**3)** $(x - 6)^2$

**4)** $(x - 10)^2$

**5)** $(x - 12)^2$

**6)** $(x + 1)^2$

**7)** $(x + 6)^2$

**8)** $(x + 3)^2$

**9)** $(x + 8)^2$

**10)** $(x + 7)^2$

**11)** $(x + 11)^2$

**12)** $(x - 4)^2$

**13)** $(x - 5)^2$

**14)** $(x - 3)^2$

**15)** $(x + 2)^2$

**16)** $(x - 11)^2$

**17)** $(x - 7)^2$

**18)** $(x + 10)^2$

**19)** $(x - 1)^2$

**20)** $(x + 9)^2$

**Answers**

1. $x^2-18x+81$
2. $x^2-16x+64$
3. $x^2-12x+36$
4. $x^2-20x+100$
5. $x^2-24x+144$
6. $x^2+2x+1$
7. $x^2+12x+36$
8. $x^2+6x+9$
9. $x^2+16x+64$
10. $x^2+14x+49$
11. $x^2+22x+121$
12. $x^2-8x+16$
13. $x^2-10x+25$
14. $x^2-6x+9$
15. $x^2+4x+4$
16. $x^2-22x+121$
17. $x^2-14x+49$
18. $x^2+20x+100$
19. $x^2-2x+1$
20. $x^2+18x+81$



| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-10 | 95 | 90 | 85 | 80 | 75 | 70 | 65 | 60 | 55 | 50 |
| 11-20 | 45 | 40 | 35 | 30 | 25 | 20 | 15 | 10 | 5 | 0 |