# Numeric Form to Expanded Form with Decimals

Name:

**Convert each number to expanded form.**

**Ex)** 973.5 $9\times100+7\times10+3+(5\times{}^{1}\!/_{10})$

**1)** 29.166

**2)** 18.43

**3)** 8.598

**4)** 5.498

**5)** 67.4

**6)** 163.761

**7)** 6.1

**8)** 91.193

**9)** 193.4

**10)** 747.353

**11)** 56.99

**12)** 83.597

**13)** 7.7

**14)** 23.35

**15)** 98.668

**16)** 9.81

**17)** 866.7

**18)** 235.72

**19)** 9.892

**20)** 22.11



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

Numeric Form to Expanded Form with Decimals Name: **Answer Key**

**Convert each number to expanded form.**

**Ex)** 973.5 $9\times100+7\times10+3+(5\times\frac{1}{10})$

**1)** 29.166 $2\times10+9+(1\times\frac{1}{10})+(6\times\frac{1}{100})+(6\times\frac{1}{1000})$

**2)** 18.43 $1\times10+8+(4\times\frac{1}{10})+(3\times\frac{1}{100})$

**3)** 8.598 $8+(5\times\frac{1}{10})+(9\times\frac{1}{100})+(8\times\frac{1}{1000})$

**4)** 5.498 $5+(4\times\frac{1}{10})+(9\times\frac{1}{100})+(8\times\frac{1}{1000})$

**5)** 67.4 $6\times10+7+(4\times\frac{1}{10})$

**6)** 163.761 $1\times100+6\times10+3+(7\times\frac{1}{10})+(6\times\frac{1}{100})+(1\times\frac{1}{1000})$

**7)** 6.1 $6+(1\times\frac{1}{10})$

**8)** 91.193 $9\times10+1+(1\times\frac{1}{10})+(9\times\frac{1}{100})+(3\times\frac{1}{1000})$

**9)** 193.4 $1\times100+9\times10+3+(4\times\frac{1}{10})$

**10)** 747.353 $7\times100+4\times10+7+(3\times\frac{1}{10})+(5\times\frac{1}{100})+(3\times\frac{1}{1000})$

**11)** 56.99 $5\times10+6+(9\times\frac{1}{10})+(9\times\frac{1}{100})$

**12)** 83.597 $8\times10+3+(5\times\frac{1}{10})+(9\times\frac{1}{100})+(7\times\frac{1}{1000})$

**13)** 7.7 $7+(7\times\frac{1}{10})$

**14)** 23.35 $2\times10+3+(3\times\frac{1}{10})+(5\times\frac{1}{100})$

**15)** 98.668 $9\times10+8+(6\times\frac{1}{10})+(6\times\frac{1}{100})+(8\times\frac{1}{1000})$

**16)** 9.81 $9+(8\times\frac{1}{10})+(1\times\frac{1}{100})$

**17)** 866.7 $8\times100+6\times10+6+(7\times\frac{1}{10})$

**18)** 235.72 $2\times100+3\times10+5+(7\times\frac{1}{10})+(2\times\frac{1}{100})$

**19)** 9.892 $9+(8\times\frac{1}{10})+(9\times\frac{1}{100})+(2\times\frac{1}{1000})$

**20)** 22.11 $2\times10+2+(1\times\frac{1}{10})+(1\times\frac{1}{100})$



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

# Numeric Form to Expanded Form with Decimals

Name:

**Convert each number to expanded form.**

**Ex)** 79.527 $7\times10+9+(5\times\frac{1}{10})+(2\times\frac{1}{100})+(7\times\frac{1}{1000})$

**1)** 41.8

**2)** 3.841

**3)** 314.839

**4)** 83.547

**5)** 6.34

**6)** 598.241

**7)** 1.22

**8)** 356.674

**9)** 24.628

**10)** 13.587

**11)** 7.9

**12)** 68.53

**13)** 63.1

**14)** 1.39

**15)** 13.6

**16)** 3.78

**17)** 72.348

**18)** 64.432

**19)** 69.151

**20)** 652.72



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

Numeric Form to Expanded Form with Decimals Name: **Answer Key**

**Convert each number to expanded form.**

**Ex)** 79.527 $7\times10+9+(5\times\frac{1}{10})+(2\times\frac{1}{100})+(7\times\frac{1}{1000})$

**1)** 41.8 $4\times10+1+(8\times\frac{1}{10})$

**2)** 3.841 $3+(8\times\frac{1}{10})+(4\times\frac{1}{100})+(1\times\frac{1}{1000})$

**3)** 314.839 $3\times100+1\times10+4+(8\times\frac{1}{10})+(3\times\frac{1}{100})+(9\times\frac{1}{1000})$

**4)** 83.547 $8\times10+3+(5\times\frac{1}{10})+(4\times\frac{1}{100})+(7\times\frac{1}{1000})$

**5)** 6.34 $6+(3\times\frac{1}{10})+(4\times\frac{1}{100})$

**6)** 598.241 $5\times100+9\times10+8+(2\times\frac{1}{10})+(4\times\frac{1}{100})+(1\times\frac{1}{1000})$

**7)** 1.22 $1+(2\times\frac{1}{10})+(2\times\frac{1}{100})$

**8)** 356.674 $3\times100+5\times10+6+(6\times\frac{1}{10})+(7\times\frac{1}{100})+(4\times\frac{1}{1000})$

**9)** 24.628 $2\times10+4+(6\times\frac{1}{10})+(2\times\frac{1}{100})+(8\times\frac{1}{1000})$

**10)** 13.587 $1\times10+3+(5\times\frac{1}{10})+(8\times\frac{1}{100})+(7\times\frac{1}{1000})$

**11)** 7.9 $7+(9\times\frac{1}{10})$

**12)** 68.53 $6\times10+8+(5\times\frac{1}{10})+(3\times\frac{1}{100})$

**13)** 63.1 $6\times10+3+(1\times\frac{1}{10})$

**14)** 1.39 $1+(3\times\frac{1}{10})+(9\times\frac{1}{100})$

**15)** 13.6 $1\times10+3+(6\times\frac{1}{10})$

**16)** 3.78 $3+(7\times\frac{1}{10})+(8\times\frac{1}{100})$

**17)** 72.348 $7\times10+2+(3\times\frac{1}{10})+(4\times\frac{1}{100})+(8\times\frac{1}{1000})$

**18)** 64.432 $6\times10+4+(4\times\frac{1}{10})+(3\times\frac{1}{100})+(2\times\frac{1}{1000})$

**19)** 69.151 $6\times10+9+(1\times\frac{1}{10})+(5\times\frac{1}{100})+(1\times\frac{1}{1000})$

**20)** 652.72 $6\times100+5\times10+2+(7\times\frac{1}{10})+(2\times\frac{1}{100})$



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

# Numeric Form to Expanded Form with Decimals

Name:

**Convert each number to expanded form.**

**Ex)** 41.78 $4\times10+1+(7\times\frac{1}{10})+(8\times\frac{1}{100})$

**1)** 96.866

**2)** 2.71

**3)** 25.9

**4)** 934.7

**5)** 224.72

**6)** 47.4

**7)** 53.946

**8)** 95.96

**9)** 5.96

**10)** 283.4

**11)** 446.784

**12)** 637.17

**13)** 4.7

**14)** 73.7

**15)** 76.11

**16)** 438.893

**17)** 839.616

**18)** 7.917

**19)** 67.81

**20)** 6.58



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

Numeric Form to Expanded Form with Decimals Name: **Answer Key**

**Convert each number to expanded form.**

**Ex)** 41.78 $4\times10+1+(7\times\frac{1}{10})+(8\times\frac{1}{100})$

**1)** 96.866 $9\times10+6+(8\times\frac{1}{10})+(6\times\frac{1}{100})+(6\times\frac{1}{1000})$

**2)** 2.71 $2+(7\times\frac{1}{10})+(1\times\frac{1}{100})$

**3)** 25.9 $2\times10+5+(9\times\frac{1}{10})$

**4)** 934.7 $9\times100+3\times10+4+(7\times\frac{1}{10})$

**5)** 224.72 $2\times100+2\times10+4+(7\times\frac{1}{10})+(2\times\frac{1}{100})$

**6)** 47.4 $4\times10+7+(4\times\frac{1}{10})$

**7)** 53.946 $5\times10+3+(9\times\frac{1}{10})+(4\times\frac{1}{100})+(6\times\frac{1}{1000})$

**8)** 95.96 $9\times10+5+(9\times\frac{1}{10})+(6\times\frac{1}{100})$

**9)** 5.96 $5+(9\times\frac{1}{10})+(6\times\frac{1}{100})$

**10)** 283.4 $2\times100+8\times10+3+(4\times\frac{1}{10})$

**11)** 446.784 $4\times100+4\times10+6+(7\times\frac{1}{10})+(8\times\frac{1}{100})+(4\times\frac{1}{1000})$

**12)** 637.17 $6\times100+3\times10+7+(1\times\frac{1}{10})+(7\times\frac{1}{100})$

**13)** 4.7 $4+(7\times\frac{1}{10})$

**14)** 73.7 $7\times10+3+(7\times\frac{1}{10})$

**15)** 76.11 $7\times10+6+(1\times\frac{1}{10})+(1\times\frac{1}{100})$

**16)** 438.893 $4\times100+3\times10+8+(8\times\frac{1}{10})+(9\times\frac{1}{100})+(3\times\frac{1}{1000})$

**17)** 839.616 $8\times100+3\times10+9+(6\times\frac{1}{10})+(1\times\frac{1}{100})+(6\times\frac{1}{1000})$

**18)** 7.917 $7+(9\times\frac{1}{10})+(1\times\frac{1}{100})+(7\times\frac{1}{1000})$

**19)** 67.81 $6\times10+7+(8\times\frac{1}{10})+(1\times\frac{1}{100})$

**20)** 6.58 $6+(5\times\frac{1}{10})+(8\times\frac{1}{100})$



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

# Numeric Form to Expanded Form with Decimals

Name:

**Convert each number to expanded form.**

**Ex)** 7.9 $7+(9\times{}^{1}\!/_{10})$

**1)** 147.5

**2)** 3.81

**3)** 4.2

**4)** 19.32

**5)** 56.7

**6)** 42.88

**7)** 7.3

**8)** 644.9

**9)** 38.5

**10)** 985.51

**11)** 2.191

**12)** 37.35

**13)** 287.6

**14)** 43.185

**15)** 4.54

**16)** 5.8

**17)** 15.2

**18)** 671.48

**19)** 84.7

**20)** 74.36



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

Numeric Form to Expanded Form with Decimals Name: **Answer Key**

**Convert each number to expanded form.**

**Ex)** 7.9 $7+(9\times\frac{1}{10})$

**1)** 147.5 $1\times100+4\times10+7+(5\times\frac{1}{10})$

**2)** 3.81 $3+(8\times\frac{1}{10})+(1\times\frac{1}{100})$

**3)** 4.2 $4+(2\times\frac{1}{10})$

**4)** 19.32 $1\times10+9+(3\times\frac{1}{10})+(2\times\frac{1}{100})$

**5)** 56.7 $5\times10+6+(7\times\frac{1}{10})$

**6)** 42.88 $4\times10+2+(8\times\frac{1}{10})+(8\times\frac{1}{100})$

**7)** 7.3 $7+(3\times\frac{1}{10})$

**8)** 644.9 $6\times100+4\times10+4+(9\times\frac{1}{10})$

**9)** 38.5 $3\times10+8+(5\times\frac{1}{10})$

**10)** 985.51 $9\times100+8\times10+5+(5\times\frac{1}{10})+(1\times\frac{1}{100})$

**11)** 2.191 $2+(1\times\frac{1}{10})+(9\times\frac{1}{100})+(1\times\frac{1}{1000})$

**12)** 37.35 $3\times10+7+(3\times\frac{1}{10})+(5\times\frac{1}{100})$

**13)** 287.6 $2\times100+8\times10+7+(6\times\frac{1}{10})$

**14)** 43.185 $4\times10+3+(1\times\frac{1}{10})+(8\times\frac{1}{100})+(5\times\frac{1}{1000})$

**15)** 4.54 $4+(5\times\frac{1}{10})+(4\times\frac{1}{100})$

**16)** 5.8 $5+(8\times\frac{1}{10})$

**17)** 15.2 $1\times10+5+(2\times\frac{1}{10})$

**18)** 671.48 $6\times100+7\times10+1+(4\times\frac{1}{10})+(8\times\frac{1}{100})$

**19)** 84.7 $8\times10+4+(7\times\frac{1}{10})$

**20)** 74.36 $7\times10+4+(3\times\frac{1}{10})+(6\times\frac{1}{100})$



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

# Numeric Form to Expanded Form with Decimals

Name:

**Convert each number to expanded form.**

**Ex)** 564.756 $5\times100+6\times10+4+(7\times\frac{1}{10})+(5\times\frac{1}{100})+(6\times\frac{1}{1000})$

**1)** 63.953

**2)** 741.613

**3)** 344.3

**4)** 7.38

**5)** 327.144

**6)** 5.8

**7)** 18.6

**8)** 855.861

**9)** 4.91

**10)** 332.947

**11)** 927.9

**12)** 984.465

**13)** 29.1

**14)** 6.1

**15)** 4.39

**16)** 522.2

**17)** 8.4

**18)** 5.22

**19)** 85.55

**20)** 919.691



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

Numeric Form to Expanded Form with Decimals Name: **Answer Key**

**Convert each number to expanded form.**

**Ex)** 564.756 $5\times100+6\times10+4+(7\times\frac{1}{10})+(5\times\frac{1}{100})+(6\times\frac{1}{1000})$

**1)** 63.953 $6\times10+3+(9\times\frac{1}{10})+(5\times\frac{1}{100})+(3\times\frac{1}{1000})$

**2)** 741.613 $7\times100+4\times10+1+(6\times\frac{1}{10})+(1\times\frac{1}{100})+(3\times\frac{1}{1000})$

**3)** 344.3 $3\times100+4\times10+4+(3\times\frac{1}{10})$

**4)** 7.38 $7+(3\times\frac{1}{10})+(8\times\frac{1}{100})$

**5)** 327.144 $3\times100+2\times10+7+(1\times\frac{1}{10})+(4\times\frac{1}{100})+(4\times\frac{1}{1000})$

**6)** 5.8 $5+(8\times\frac{1}{10})$

**7)** 18.6 $1\times10+8+(6\times\frac{1}{10})$

**8)** 855.861 $8\times100+5\times10+5+(8\times\frac{1}{10})+(6\times\frac{1}{100})+(1\times\frac{1}{1000})$

**9)** 4.91 $4+(9\times\frac{1}{10})+(1\times\frac{1}{100})$

**10)** 332.947 $3\times100+3\times10+2+(9\times\frac{1}{10})+(4\times\frac{1}{100})+(7\times\frac{1}{1000})$

**11)** 927.9 $9\times100+2\times10+7+(9\times\frac{1}{10})$

**12)** 984.465 $9\times100+8\times10+4+(4\times\frac{1}{10})+(6\times\frac{1}{100})+(5\times\frac{1}{1000})$

**13)** 29.1 $2\times10+9+(1\times\frac{1}{10})$

**14)** 6.1 $6+(1\times\frac{1}{10})$

**15)** 4.39 $4+(3\times\frac{1}{10})+(9\times\frac{1}{100})$

**16)** 522.2 $5\times100+2\times10+2+(2\times\frac{1}{10})$

**17)** 8.4 $8+(4\times\frac{1}{10})$

**18)** 5.22 $5+(2\times\frac{1}{10})+(2\times\frac{1}{100})$

**19)** 85.55 $8\times10+5+(5\times\frac{1}{10})+(5\times\frac{1}{100})$

**20)** 919.691 $9\times100+1\times10+9+(6\times\frac{1}{10})+(9\times\frac{1}{100})+(1\times\frac{1}{1000})$



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

# Numeric Form to Expanded Form with Decimals

Name:

**Convert each number to expanded form.**

**Ex)** 499.23 $4\times100+9\times10+9+(2\times\frac{1}{10})+(3\times\frac{1}{100})$

**1)** 54.6

**2)** 98.88

**3)** 724.87

**4)** 16.662

**5)** 72.626

**6)** 423.835

**7)** 66.14

**8)** 772.69

**9)** 57.8

**10)** 9.1

**11)** 3.198

**12)** 428.1

**13)** 53.181

**14)** 1.5

**15)** 45.364

**16)** 564.1

**17)** 1.8

**18)** 19.6

**19)** 5.52

**20)** 11.332



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

Numeric Form to Expanded Form with Decimals Name: **Answer Key**

**Convert each number to expanded form.**

**Ex)** 499.23 $4\times100+9\times10+9+(2\times\frac{1}{10})+(3\times\frac{1}{100})$

**1)** 54.6 $5\times10+4+(6\times\frac{1}{10})$

**2)** 98.88 $9\times10+8+(8\times\frac{1}{10})+(8\times\frac{1}{100})$

**3)** 724.87 $7\times100+2\times10+4+(8\times\frac{1}{10})+(7\times\frac{1}{100})$

**4)** 16.662 $1\times10+6+(6\times\frac{1}{10})+(6\times\frac{1}{100})+(2\times\frac{1}{1000})$

**5)** 72.626 $7\times10+2+(6\times\frac{1}{10})+(2\times\frac{1}{100})+(6\times\frac{1}{1000})$

**6)** 423.835 $4\times100+2\times10+3+(8\times\frac{1}{10})+(3\times\frac{1}{100})+(5\times\frac{1}{1000})$

**7)** 66.14 $6\times10+6+(1\times\frac{1}{10})+(4\times\frac{1}{100})$

**8)** 772.69 $7\times100+7\times10+2+(6\times\frac{1}{10})+(9\times\frac{1}{100})$

**9)** 57.8 $5\times10+7+(8\times\frac{1}{10})$

**10)** 9.1 $9+(1\times\frac{1}{10})$

**11)** 3.198 $3+(1\times\frac{1}{10})+(9\times\frac{1}{100})+(8\times\frac{1}{1000})$

**12)** 428.1 $4\times100+2\times10+8+(1\times\frac{1}{10})$

**13)** 53.181 $5\times10+3+(1\times\frac{1}{10})+(8\times\frac{1}{100})+(1\times\frac{1}{1000})$

**14)** 1.5 $1+(5\times\frac{1}{10})$

**15)** 45.364 $4\times10+5+(3\times\frac{1}{10})+(6\times\frac{1}{100})+(4\times\frac{1}{1000})$

**16)** 564.1 $5\times100+6\times10+4+(1\times\frac{1}{10})$

**17)** 1.8 $1+(8\times\frac{1}{10})$

**18)** 19.6 $1\times10+9+(6\times\frac{1}{10})$

**19)** 5.52 $5+(5\times\frac{1}{10})+(2\times\frac{1}{100})$

**20)** 11.332 $1\times10+1+(3\times\frac{1}{10})+(3\times\frac{1}{100})+(2\times\frac{1}{1000})$



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

# Numeric Form to Expanded Form with Decimals

Name:

**Convert each number to expanded form.**

**Ex)** 252.33 $2\times100+5\times10+2+(3\times\frac{1}{10})+(3\times\frac{1}{100})$

**1)** 227.98

**2)** 328.1

**3)** 15.75

**4)** 741.38

**5)** 7.847

**6)** 94.95

**7)** 76.2

**8)** 185.855

**9)** 2.92

**10)** 88.41

**11)** 631.1

**12)** 63.6

**13)** 319.723

**14)** 19.8

**15)** 52.1

**16)** 7.2

**17)** 26.95

**18)** 85.42

**19)** 9.356

**20)** 356.3



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

Numeric Form to Expanded Form with Decimals Name: **Answer Key**

**Convert each number to expanded form.**

**Ex)** 252.33 $2\times100+5\times10+2+(3\times\frac{1}{10})+(3\times\frac{1}{100})$

**1)** 227.98 $2\times100+2\times10+7+(9\times\frac{1}{10})+(8\times\frac{1}{100})$

**2)** 328.1 $3\times100+2\times10+8+(1\times\frac{1}{10})$

**3)** 15.75 $1\times10+5+(7\times\frac{1}{10})+(5\times\frac{1}{100})$

**4)** 741.38 $7\times100+4\times10+1+(3\times\frac{1}{10})+(8\times\frac{1}{100})$

**5)** 7.847 $7+(8\times\frac{1}{10})+(4\times\frac{1}{100})+(7\times\frac{1}{1000})$

**6)** 94.95 $9\times10+4+(9\times\frac{1}{10})+(5\times\frac{1}{100})$

**7)** 76.2 $7\times10+6+(2\times\frac{1}{10})$

**8)** 185.855 $1\times100+8\times10+5+(8\times\frac{1}{10})+(5\times\frac{1}{100})+(5\times\frac{1}{1000})$

**9)** 2.92 $2+(9\times\frac{1}{10})+(2\times\frac{1}{100})$

**10)** 88.41 $8\times10+8+(4\times\frac{1}{10})+(1\times\frac{1}{100})$

**11)** 631.1 $6\times100+3\times10+1+(1\times\frac{1}{10})$

**12)** 63.6 $6\times10+3+(6\times\frac{1}{10})$

**13)** 319.723 $3\times100+1\times10+9+(7\times\frac{1}{10})+(2\times\frac{1}{100})+(3\times\frac{1}{1000})$

**14)** 19.8 $1\times10+9+(8\times\frac{1}{10})$

**15)** 52.1 $5\times10+2+(1\times\frac{1}{10})$

**16)** 7.2 $7+(2\times\frac{1}{10})$

**17)** 26.95 $2\times10+6+(9\times\frac{1}{10})+(5\times\frac{1}{100})$

**18)** 85.42 $8\times10+5+(4\times\frac{1}{10})+(2\times\frac{1}{100})$

**19)** 9.356 $9+(3\times\frac{1}{10})+(5\times\frac{1}{100})+(6\times\frac{1}{1000})$

**20)** 356.3 $3\times100+5\times10+6+(3\times\frac{1}{10})$



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

# Numeric Form to Expanded Form with Decimals

Name:

**Convert each number to expanded form.**

**Ex)** 65.8 $6\times10+5+(8\times{}^{1}\!/_{10})$

**1)** 6.184

**2)** 35.6

**3)** 2.455

**4)** 64.6

**5)** 6.3

**6)** 88.125

**7)** 3.5

**8)** 145.8

**9)** 82.81

**10)** 117.833

**11)** 82.777

**12)** 16.211

**13)** 91.86

**14)** 4.322

**15)** 553.679

**16)** 6.66

**17)** 436.9

**18)** 762.319

**19)** 85.8

**20)** 19.177



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

Numeric Form to Expanded Form with Decimals Name: **Answer Key**

**Convert each number to expanded form.**

**Ex)** 65.8 $6\times10+5+(8\times\frac{1}{10})$

**1)** 6.184 $6+(1\times\frac{1}{10})+(8\times\frac{1}{100})+(4\times\frac{1}{1000})$

**2)** 35.6 $3\times10+5+(6\times\frac{1}{10})$

**3)** 2.455 $2+(4\times\frac{1}{10})+(5\times\frac{1}{100})+(5\times\frac{1}{1000})$

**4)** 64.6 $6\times10+4+(6\times\frac{1}{10})$

**5)** 6.3 $6+(3\times\frac{1}{10})$

**6)** 88.125 $8\times10+8+(1\times\frac{1}{10})+(2\times\frac{1}{100})+(5\times\frac{1}{1000})$

**7)** 3.5 $3+(5\times\frac{1}{10})$

**8)** 145.8 $1\times100+4\times10+5+(8\times\frac{1}{10})$

**9)** 82.81 $8\times10+2+(8\times\frac{1}{10})+(1\times\frac{1}{100})$

**10)** 117.833 $1\times100+1\times10+7+(8\times\frac{1}{10})+(3\times\frac{1}{100})+(3\times\frac{1}{1000})$

**11)** 82.777 $8\times10+2+(7\times\frac{1}{10})+(7\times\frac{1}{100})+(7\times\frac{1}{1000})$

**12)** 16.211 $1\times10+6+(2\times\frac{1}{10})+(1\times\frac{1}{100})+(1\times\frac{1}{1000})$

**13)** 91.86 $9\times10+1+(8\times\frac{1}{10})+(6\times\frac{1}{100})$

**14)** 4.322 $4+(3\times\frac{1}{10})+(2\times\frac{1}{100})+(2\times\frac{1}{1000})$

**15)** 553.679 $5\times100+5\times10+3+(6\times\frac{1}{10})+(7\times\frac{1}{100})+(9\times\frac{1}{1000})$

**16)** 6.66 $6+(6\times\frac{1}{10})+(6\times\frac{1}{100})$

**17)** 436.9 $4\times100+3\times10+6+(9\times\frac{1}{10})$

**18)** 762.319 $7\times100+6\times10+2+(3\times\frac{1}{10})+(1\times\frac{1}{100})+(9\times\frac{1}{1000})$

**19)** 85.8 $8\times10+5+(8\times\frac{1}{10})$

**20)** 19.177 $1\times10+9+(1\times\frac{1}{10})+(7\times\frac{1}{100})+(7\times\frac{1}{1000})$



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

# Numeric Form to Expanded Form with Decimals

Name:

**Convert each number to expanded form.**

**Ex)** 926.99 $9\times100+2\times10+6+(9\times\frac{1}{10})+(9\times\frac{1}{100})$

**1)** 7.4

**2)** 83.81

**3)** 2.419

**4)** 1.74

**5)** 211.5

**6)** 7.287

**7)** 812.3

**8)** 91.16

**9)** 83.783

**10)** 57.584

**11)** 42.91

**12)** 86.547

**13)** 4.5

**14)** 665.2

**15)** 5.445

**16)** 58.218

**17)** 257.95

**18)** 48.64

**19)** 2.2

**20)** 633.3



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

Numeric Form to Expanded Form with Decimals Name: **Answer Key**

**Convert each number to expanded form.**

**Ex)** 926.99 $9\times100+2\times10+6+(9\times\frac{1}{10})+(9\times\frac{1}{100})$

**1)** 7.4 $7+(4\times\frac{1}{10})$

**2)** 83.81 $8\times10+3+(8\times\frac{1}{10})+(1\times\frac{1}{100})$

**3)** 2.419 $2+(4\times\frac{1}{10})+(1\times\frac{1}{100})+(9\times\frac{1}{1000})$

**4)** 1.74 $1+(7\times\frac{1}{10})+(4\times\frac{1}{100})$

**5)** 211.5 $2\times100+1\times10+1+(5\times\frac{1}{10})$

**6)** 7.287 $7+(2\times\frac{1}{10})+(8\times\frac{1}{100})+(7\times\frac{1}{1000})$

**7)** 812.3 $8\times100+1\times10+2+(3\times\frac{1}{10})$

**8)** 91.16 $9\times10+1+(1\times\frac{1}{10})+(6\times\frac{1}{100})$

**9)** 83.783 $8\times10+3+(7\times\frac{1}{10})+(8\times\frac{1}{100})+(3\times\frac{1}{1000})$

**10)** 57.584 $5\times10+7+(5\times\frac{1}{10})+(8\times\frac{1}{100})+(4\times\frac{1}{1000})$

**11)** 42.91 $4\times10+2+(9\times\frac{1}{10})+(1\times\frac{1}{100})$

**12)** 86.547 $8\times10+6+(5\times\frac{1}{10})+(4\times\frac{1}{100})+(7\times\frac{1}{1000})$

**13)** 4.5 $4+(5\times\frac{1}{10})$

**14)** 665.2 $6\times100+6\times10+5+(2\times\frac{1}{10})$

**15)** 5.445 $5+(4\times\frac{1}{10})+(4\times\frac{1}{100})+(5\times\frac{1}{1000})$

**16)** 58.218 $5\times10+8+(2\times\frac{1}{10})+(1\times\frac{1}{100})+(8\times\frac{1}{1000})$

**17)** 257.95 $2\times100+5\times10+7+(9\times\frac{1}{10})+(5\times\frac{1}{100})$

**18)** 48.64 $4\times10+8+(6\times\frac{1}{10})+(4\times\frac{1}{100})$

**19)** 2.2 $2+(2\times\frac{1}{10})$

**20)** 633.3 $6\times100+3\times10+3+(3\times\frac{1}{10})$



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

# Numeric Form to Expanded Form with Decimals

Name:

**Convert each number to expanded form.**

**Ex)** 519.33 $5\times100+1\times10+9+(3\times\frac{1}{10})+(3\times\frac{1}{100})$

**1)** 9.48

**2)** 672.85

**3)** 4.51

**4)** 617.47

**5)** 8.115

**6)** 2.7

**7)** 3.317

**8)** 9.43

**9)** 9.2

**10)** 1.789

**11)** 33.724

**12)** 72.897

**13)** 1.1

**14)** 156.293

**15)** 299.243

**16)** 82.62

**17)** 17.67

**18)** 539.392

**19)** 1.86

**20)** 7.695



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

Numeric Form to Expanded Form with Decimals Name: **Answer Key**

**Convert each number to expanded form.**

**Ex)** 519.33 $5\times100+1\times10+9+(3\times\frac{1}{10})+(3\times\frac{1}{100})$

**1)** 9.48 $9+(4\times\frac{1}{10})+(8\times\frac{1}{100})$

**2)** 672.85 $6\times100+7\times10+2+(8\times\frac{1}{10})+(5\times\frac{1}{100})$

**3)** 4.51 $4+(5\times\frac{1}{10})+(1\times\frac{1}{100})$

**4)** 617.47 $6\times100+1\times10+7+(4\times\frac{1}{10})+(7\times\frac{1}{100})$

**5)** 8.115 $8+(1\times\frac{1}{10})+(1\times\frac{1}{100})+(5\times\frac{1}{1000})$

**6)** 2.7 $2+(7\times\frac{1}{10})$

**7)** 3.317 $3+(3\times\frac{1}{10})+(1\times\frac{1}{100})+(7\times\frac{1}{1000})$

**8)** 9.43 $9+(4\times\frac{1}{10})+(3\times\frac{1}{100})$

**9)** 9.2 $9+(2\times\frac{1}{10})$

**10)** 1.789 $1+(7\times\frac{1}{10})+(8\times\frac{1}{100})+(9\times\frac{1}{1000})$

**11)** 33.724 $3\times10+3+(7\times\frac{1}{10})+(2\times\frac{1}{100})+(4\times\frac{1}{1000})$

**12)** 72.897 $7\times10+2+(8\times\frac{1}{10})+(9\times\frac{1}{100})+(7\times\frac{1}{1000})$

**13)** 1.1 $1+(1\times\frac{1}{10})$

**14)** 156.293 $1\times100+5\times10+6+(2\times\frac{1}{10})+(9\times\frac{1}{100})+(3\times\frac{1}{1000})$

**15)** 299.243 $2\times100+9\times10+9+(2\times\frac{1}{10})+(4\times\frac{1}{100})+(3\times\frac{1}{1000})$

**16)** 82.62 $8\times10+2+(6\times\frac{1}{10})+(2\times\frac{1}{100})$

**17)** 17.67 $1\times10+7+(6\times\frac{1}{10})+(7\times\frac{1}{100})$

**18)** 539.392 $5\times100+3\times10+9+(3\times\frac{1}{10})+(9\times\frac{1}{100})+(2\times\frac{1}{1000})$

**19)** 1.86 $1+(8\times\frac{1}{10})+(6\times\frac{1}{100})$

**20)** 7.695 $7+(6\times\frac{1}{10})+(9\times\frac{1}{100})+(5\times\frac{1}{1000})$



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