Numeric Form to Expanded Form with Decimals

Name:

Convert each number to expanded form.

Ex) 8.835 $8+(8\times{}^{1}\!/_{10})+(3\times{}^{1}\!/_{100})+(5\times{}^{1}\!/_{1000})$

1) 9.1

2) 9.1

3) 259.6

4) 62.232

5) 411.19

6) 43.562

7) 595.6

8) 622.251

9) 36.2

10) 321.137

11) 8.76

12) 229.4

13) 6.52

14) 298.5

15) 164.751

16) 68.52

17) 37.6

18) 637.3

19) 43.2

20) 1.9

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) 8.835 $8+(8\times\frac{1}{10})+(3\times\frac{1}{100})+(5\times\frac{1}{1000})$

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

2) 9.1 $9+(1\times\frac{1}{10})$

3) 259.6 $2\times100+5\times10+9+(6\times\frac{1}{10})$

4) 62.232 $6\times10+2+(2\times\frac{1}{10})+(3\times\frac{1}{100})+(2\times\frac{1}{1000})$

5) 411.19 $4\times100+1\times10+1+(1\times\frac{1}{10})+(9\times\frac{1}{100})$

6) 43.562 $4\times10+3+(5\times\frac{1}{10})+(6\times\frac{1}{100})+(2\times\frac{1}{1000})$

7) 595.6 $5\times100+9\times10+5+(6\times\frac{1}{10})$

8) 622.251 $6\times100+2\times10+2+(2\times\frac{1}{10})+(5\times\frac{1}{100})+(1\times\frac{1}{1000})$

9) 36.2 $3\times10+6+(2\times\frac{1}{10})$

10) 321.137 $3\times100+2\times10+1+(1\times\frac{1}{10})+(3\times\frac{1}{100})+(7\times\frac{1}{1000})$

11) 8.76 $8+(7\times\frac{1}{10})+(6\times\frac{1}{100})$

12) 229.4 $2\times100+2\times10+9+(4\times\frac{1}{10})$

13) 6.52 $6+(5\times\frac{1}{10})+(2\times\frac{1}{100})$

14) 298.5 $2\times100+9\times10+8+(5\times\frac{1}{10})$

15) 164.751 $1\times100+6\times10+4+(7\times\frac{1}{10})+(5\times\frac{1}{100})+(1\times\frac{1}{1000})$

16) 68.52 $6\times10+8+(5\times\frac{1}{10})+(2\times\frac{1}{100})$

17) 37.6 $3\times10+7+(6\times\frac{1}{10})$

18) 637.3 $6\times100+3\times10+7+(3\times\frac{1}{10})$

19) 43.2 $4\times10+3+(2\times\frac{1}{10})$

20) 1.9 $1+(9\times\frac{1}{10})$

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