Numeric Form to Expanded Notation with Decimals

Name:

Convert each number to expanded notation.

Ex) 3.634 $3 + (6 \times {}^{1}/_{10}) + (3 \times {}^{1}/_{100}) + (4 \times {}^{1}/_{1000})$

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

1) 6.312

2) 58.3

3) 366.8

4) 6.411

5) 7.2

6) 83.76

7) 746.5

8) 646.119

9) 16.658

10) 47.3

11) 977.88

12) 82.143

13) 8.217

14) 267.515

15) 57.82

1-10	93	87	80	73	67	60	53	47	40	33

Expanded Form to Numeric Form with Decimals

Name:

Convert each problem to numeric form.

Ex) $40 + 8 + \frac{2}{10}$

1) $6 + \frac{6}{10} + \frac{7}{100}$

2) $3 + \frac{1}{10}$

3) $7 + \frac{1}{10} + \frac{7}{100}$

4) $50 + 7 + \frac{1}{10}$

5) $400 + 20 + 6 + \frac{4}{10} + \frac{2}{100} + \frac{4}{1000}$

6) $4 + \frac{8}{10}$

7) $6 + \frac{4}{10}$

8) $6 + \frac{3}{10} + \frac{4}{100}$

9) $7 + \frac{8}{10} + \frac{1}{100} + \frac{4}{1000}$

10) $6 + \frac{8}{10} + \frac{7}{100} + \frac{4}{1000}$

11) $700 + 60 + 2 + \frac{8}{10} + \frac{3}{100} + \frac{8}{1000}$

12) $300 + 80 + 1 + \frac{8}{10}$

13) $100 + 50 + 6 + \frac{6}{10}$

14) $3 + \frac{5}{10} + \frac{4}{100}$

15) $50 + 9 + \frac{9}{10} + \frac{4}{100} + \frac{5}{1000}$

16) $20 + 2 + \frac{3}{10} + \frac{9}{100} + \frac{7}{1000}$

17) $2 + \frac{5}{10}$

18) $20 + 6 + \frac{5}{10} + \frac{7}{100} + \frac{3}{1000}$

19) $800 + 80 + 3 + \frac{1}{10} + \frac{5}{100}$

20) $10 + 4 + \frac{4}{10} + \frac{3}{100} + \frac{4}{1000}$

Answers

Ex. 48.2

1. 6.67
2. 3.1
3. 7.07
4. 57.1
5. 426.424
6. 4.8
7. 6.4
8. 6.34
9. 7.814
10. 6.874
11. 762.839
12. 381.8
13. 156.6
14. 3.54
15. 59.945
16. 22.397
17. 2.5
18. 26.573
19. 883.15
20. 14.434

1-10	95	90	85	80	75	70	65	60	55	50

Comparing Decimals (Thousandths)

Name:

3

Use '<' , '>' or '=' to compare the numbers.

equal to

1) 7.112 __=__ 7.112

less than

2) 5.3 __<__ 9.3

greater than

3) 9.7 __>__ 9.483

4) 7.17 _____ 7.553

5) 5.25 _____ 5.4

6) 7.1 _____ 5.1

7) 4.564 _____ 4.612

8) 8.19 _____ 8.190

9) 8.67 _____ 8.6

10) 2.5 _____ 2.5

11) 9.475 _____ 9.213

12) 9.365 _____ 9.1

13) 7.77 _____ 7.770

14) 8.207 _____ 8.2

15) 4.253 _____ 4.526

16) 4.4 _____ 4.8

17) 5.2 _____ 5.9

18) 1.177 _____ 1.652

19) 6.291 _____ 6.129

20) 5.957 _____ 5.371

> greater than

< less than

= equal to

$4 > 2$

$2 < 4$

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

Ordering Decimal Numbers

Name:

4

Order the numbers from least to greatest.

Ex) A. 81.01
B. 82
C. 81.858
D. 81.86

1) A. 91.855
B. 91.18
C. 91.8
D. 91.562

2) A. 7
B. 7.8
C. 7.463
D. 7.3

3) A. 10.954
B. 11
C. 10.663
D. 10.379

4) A. 5.222
B. 5.806
C. 6
D. 5.81

5) A. 11.6
B. 11.895
C. 11.783
D. 11.387

6) A. 3.2
B. 3.562
C. 4
D. 3.6

7) A. 8.5
B. 8.4
C. 8.524
D. 8.261

8) A. 94.6
B. 95
C. 94.78
D. 94.246

9) A. 48
B. 48.22
C. 48.41
D. 48.916

10) A. 4.609
B. 4.727
C. 5
D. 4.573

11) A. 30.743
B. 30.4
C. 30.565
D. 30.333

12) A. 26.386
B. 26.277
C. 26.78
D. 26.624

13) A. 23.375
B. 23.32
C. 23.25
D. 23.368

14) A. 2.471
B. 2.39
C. 2.394
D. 2.4

15) A. 4.91
B. 4.489
C. 4.33
D. 4.8

16) A. 67.462
B. 68
C. 67.907
D. 67.49

17) A. 1.773
B. 2
C. 1.21
D. 1.16

18) A. 56.23
B. 56
C. 56.22
D. 56.2

19) A. 6.441
B. 6.952
C. 6.4
D. 6.443

20) A. 1.3
B. 1.988
C. 1.41
D. 1.198

Answers

Ex. A,C,D,B
1. B,D,C,A
2. A,D,C,B
3. D,C,A,B
4. A,B,D,C
5. D,A,C,B
6. A,B,D,C
7. D,B,A,C
8. D,A,C,B
9. A,B,C,D
10. D,A,B,C
11. D,B,C,A
12. B,A,D,C
13. C,B,D,A
14. B,C,D,A
15. C,B,D,A
16. A,D,C,B
17. D,C,A,B
18. B,D,C,A
19. C,A,D,B
20. D,A,C,B

1-10	95	90	85	80	75	70	65	60	55	50

Rounding Decimals

Name:

Round each number to the correct place value.

17 17.5 18

1) Round to the nearest whole number. 17.462 _____

2) Round to the nearest tenth. 39.32 _____

3) Round to the nearest whole number. 981.992 _____

4) Round to the nearest hundredth. 487.362 _____

5) Round to the nearest hundredth. 22.700 _____

6) Round to the nearest whole number. 9.75 _____

7) Round to the nearest tenth. 56.79 _____

8) Round to the nearest whole number. 72.5 _____

9) Round to the nearest tenth. 6.88 _____

10) Round to the nearest whole number. 3.6 _____

11) Round to the nearest whole number. 986.91 _____

12) Round to the nearest hundredth. 159.410 _____

13) Round to the nearest hundredth. 2.190 _____

14) Round to the nearest hundredth. 58.139 _____

15) Round to the nearest hundredth. 2.153 _____

16) Round to the nearest hundredth. 10.886 _____

17) Round to the nearest whole number. 4.5 _____

18) Round to the nearest tenth. 11.430 _____

19) Round to the nearest tenth. 54.75 _____

20) Round to the nearest tenth. 467.723 _____

(5)

Answers

1. 17
2. 39.3
3. 982
4. 487.36
5. 22.70
6. 10
7. 56.8
8. 73
9. 6.9
10. 4
11. 987
12. 159.41
13. 2.19
14. 58.14
15. 2.15
16. 10.89
17. 5
18. 11.4
19. 54.8
20. 467.7

1-10	95	90	85	80	75	70	65	60	55	50

Adding and Subtracting Decimals

Name:

Solve each problem.

1) Isabel downloaded two apps which were 12.48 kb total. If one app was 1.98 kb, how big was the other app?

2) Haley was buying food for her birthday party. She bought a 63.55 oz bag of barbeque chips and a 63.9 oz bag of regular chips. How many ounces did she buy all together?

3) Paul walked 5.02 kilometers during the two days he was at the fair. One the first day he walked 1.52 kilometers. How far did he walk the second day?

4) Henry bought 7.91 lbs of cherry and lime jelly beans for his birthday party. If 4.81 lbs were cherry flavor, how many pounds were lime flavor?

5) John and Gwen were comparing the distance they ran over a week. If John ran 12.27 miles and Gwen ran 5.7 miles, how far did they run total?

6) A scientist was measuring the daily sodium values of different foods. If a soda has 32.78% the daily value and fries have 35.3% the daily value, how much would they have together?

7) Roger weighed the candy he and his brother got from Halloween. Together they received 9.29 kgs of candy. If Roger's amount was 2.89 kg how much was his brothers?

8) On Monday and Tuesday the lake received 8.73 inches of water. If it received 6.63 inches on Monday, how much did it receive on Tuesday?

9) Janet was measuring how much taller she got over two years. In the first year she grew 2.27 cm. In the second year she grew 7.8 cm. How much taller did she get altogether?

10) A computer programmer had two files. The first was 34.89 gigabyes and the second was 38.9 gigabytes. What is the total file size of both?

Answers

1. 10.5
2. 127.45
3. 3.5
4. 3.1
5. 17.97
6. 68.08
7. 6.4
8. 2.1
9. 10.07
10. 73.79

1-10	90	80	70	60	50	40	30	20	10	0