

# Decimal Place Value Challenge

Arrange all the digits to make a decimal number that meets the given criteria.

1. Between 23 and 25:

**4, 2, 7**

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T      O      .      t

2. Between 35 and 37:

**9, 6, 3**

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T      O      .      t

3. Between 19 and 21:

**8, 0, 2**

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T      O      .      t

4. Between 63 and 65:

**4, 6, 3**

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T      O      .      t

5. Between 80 and 82:

**5, 1, 8**

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T      O      .      t

6. Between 25 and 27:

**6, 2, 2**

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T      O      .      t

7. Between 12 and 14:

**9, 1, 3**

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T      O      .      t

8. Between 86 and 88:

**8, 1, 7**

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T      O      .      t

9. Between 44 and 46:

**6, 4, 5**

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T      O      .      t

10. Arrange the following digits to make the largest decimal number possible:

**5, 3, 8**

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T      O      .      t

11. Use the same digits to make the smallest decimal number.

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T      O      .      t

# Decimal Place Value Challenge

Arrange all the digits to make a 3-digit number with 2-decimal places that meets the given criteria.

1. Between 4.6 and 4.7:

**7, 4, 6**

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O . t h

2. Between 3.8 and 4:

**2, 3, 9**

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O . t h

3. Between 8.9 and 9.1:

**0, 3, 9**

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O . t h

4. Between 7.3 and 7.5:

**4, 7, 5**

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O . t h

5. Between 6.2 and 6.4:

**1, 3, 6**

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O . t h

6. Between 1.7 and 1.9:

**8, 1, 9**

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O . t h

7. Between 8.6 and 8.8:

**7, 8, 4**

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O . t h

8. Between 2.3 and 2.5:

**6, 2, 4**

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O . t h

9. Between 5 and 5.1:

**8, 0, 5**

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O . t h

10. Arrange the following digits to make the largest possible 3-digit number with 2-decimal places: **7, 4, 8**

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T O . t

11. Use the same digits to make the smallest 3-digit number with 2-decimal places.

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T O . t

# Decimal Place Value Challenge

Arrange all the digits to make a 4-digit number with 2-decimal places that meets the given criteria.

1. Between 23 and 25:

**6, 9, 4, 2**

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T      O   ·   t      h

2. Between 29 and 31:

**1, 0, 3, 5**

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T      O   ·   t      h

3. Between 52 and 54:

**3, 7, 5, 8**

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T      O   ·   t      h

4. Between 15 and 17:

**2, 6, 1, 3**

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T      O   ·   t      h

5. Between 97 and 99:

**8, 0, 4, 9**

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T      O   ·   t      h

6. Between 61 and 63:

**5, 3, 6, 2**

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T      O   ·   t      h

7. Between 43 and 45:

**7, 4, 5, 4**

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T      O   ·   t      h

8. Between 71 and 73:

**2, 7, 7, 4**

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T      O   ·   t      h

9. Between 81 and 83:

**9, 8, 2, 8**

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T      O   ·   t      h

10. How many 4-digit numbers with 2-decimal places can you make using the following digits: **7, 5, 0, 3**

11. Arrange the following digits to make the largest 4-digit number with 2-decimal places possible: **3, 2, 8, 1**

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T      O   ·   t      h

12. Use the same digits to make the smallest 4-digit number with 2-decimal places.

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T      O   ·   t      h

# Decimal Place Value Challenge Answers



1. 24.7
2. 36.9
3. 20.8
4. 64.3
5. 81.5
6. 26.2
7. 13.9
8. 87.1
9. 45.6
10. 85.3
11. 35.8



1. 4.67
2. 3.92
3. 9.03
4. 7.45
5. 6.31
6. 1.89
7. 8.74
8. 2.46
9. 5.08
10. 8.74
11. 4.78



1. 24.69, 24.96
2. 30.15, 30.51
3. 53.78, 53.87
4. 16.23, 16.32
5. 98.04, 98.40
6. 62.35, 62.53
7. 44.57, 44.75
8. 72.74, 72.47
9. 82.89, 82.98
10. 75.30, 75.03, 57.30, 57.03, 73.05, 73.50, 53.07, 53.70, 70.05, 70.50, 50.37, 50.73, 30.75, 30.57, 35.07, 35.70, 37.05, 37.50
11. 83.21
12. 12.38