Understand place value of hundredths and beyond

Name: _____   Date: _____

Fractions and Decimals	Recognise that the place value system can be extended beyond hundredths (VCMNA189)

Understanding

1. **Place the number** 928.784 **in the appropriate place value column below.**

Hundreds (100)	Tens (10)	Ones (1)	Tenths (0.1)	Hundredths (0.01)	Thousandths (0.001)

2. **What number is the tenths place in** 23.61**? _____**

3. **What number is the thousandths place in** 7.948**? _____**

4. **What number is the hundredths place in** 12.376**? _____**

5. **What number is the hundreds place in** 512.94**? _____**

6. **What number is the thousandths place in** 9.752**?_____**

Fluency

1. **Write the fractions below as decimals.**

    a) $\frac{6}{10} =$ _____

    b) $\frac{72}{100} =$ _____

    c) $\frac{13}{100} =$ _____

    d) $\frac{724}{1000} =$ _____

    e) $\frac{539}{1000} =$ _____

    f) $\frac{31}{1000} =$ _____

2. **Write the decimals below as fractions.**

    a) $0.7 =$ _____

    b) $0.31 =$ _____

    c) $0.233 =$ _____

    d) $0.857 =$ _____

    e) $0.059 =$ _____

    f) $0.003 =$ _____

    g) $0.013 =$ _____

Problem Solving

1. **Use your knowledge of division to answer the following.**

    a) $70 \div 10 =$ _____

    b) $70 \div 100 =$ _____

    c) $70 \div 1000 =$ _____

    d) $70 \div 10000 =$ _____

    e) $70 \div 100000 =$ _____

    f) $131 \div 1000 =$ _____

    g) $247 \div 1000 =$ _____

2. **Start with the number** 20.30 **and follow the instructions to find out what number you end up with.**

    a) **Increase the number by** 4 **tenths _____**

    b) **Increase your new number by** 7 **hundredths_____**

    c) **Increase your new number by** 8 **thousandths _____**

    d) **Decrease your new number by** 3 **ones _____**

    e) **Increase your new number by** 5 **thousandths _____**

    f) **What number did you end up with? _____**

Reasoning

1. **For each set of numbers below, circle the** <u>larger number</u>**.**

    a) $\frac{34}{100}$ **or** 0.43

    b) $\frac{721}{1000}$ **or** 0.732

    c) $\frac{7}{1000}$ **or** 0.0032

    d) 0.05826 **or** $\frac{49}{1000}$

2. **Write the following fractions in words.**

    a) $\frac{3}{10}$ _____

    b) $\frac{45}{100}$ _____

    _____

    c) $\frac{493}{1000}$ _____

    _____

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Fractions and Decimals	Recognise that the place value system can be extended beyond hundredths (VCMNA189)

Understanding

1. Place the number 928.784 in the appropriate place value column below.

Hundreds (100)	Tens (10)	Ones (1)	Tenths (0.1)	Hundredths (0.01)	Thousandths (0.001)
9	2	8	7	8	4

2. What number is the tens place in 43.95? _____**4**_____

3. What number is the tenths place in 23.61? _____**6**_____

4. What number is the thousandths place in 7.948? __**8**__

5. What number is the hundredths place in 12.376? __**7**__

6. What number is the hundreds place in 512.94? ___**5**___

7. What number is the thousandths place in 9.752? ___**2**___

Fluency

1. Write the fractions below as decimals.

   a) $\frac{6}{10} =$ **0.6**

   b) $\frac{72}{100} =$ **0.72**

   c) $\frac{13}{100} =$ **0.13**

   d) $\frac{724}{1000} =$ **0.724**

   e) $\frac{539}{1000} =$ **0.539**

   f) $\frac{31}{1000} =$ **0.031**

2. Write the decimals below as fractions.

   a) $0.7 =$ $\frac{7}{10}$

   b) $0.31 =$ $\frac{31}{100}$

   c) $0.233 =$ $\frac{233}{1000}$

   d) $0.857 =$ $\frac{857}{1000}$

   e) $0.059 =$ $\frac{59}{1000}$

   f) $0.003 =$ $\frac{3}{1000}$

   g) $0.013 =$ $\frac{13}{1000}$

Problem Solving

1. Use your knowledge of division to answer the following.

   a) $70 \div 10 =$ **7**

   b) $70 \div 100 =$ **0.7**

   c) $70 \div 1000 =$ **0.07**

   d) $70 \div 10000 =$ **0.007**

   e) $70 \div 100000 =$ **0.0007**

   f) $131 \div 1000 =$ **0.131**

   g) $247 \div 1000 =$ **0.247**

2. Start with the number 20.30 and follow the instructions to find out what number you end up with.

   a) Increase the number by 4 tenths **20.70**

   b) Increase your new number by 7 hundredths **20.77**

   c) Increase your new number by 8 thousandths **20.778**

   d) Decrease your new number by 3 ones **17.778**

   e) Increase your new number by 5 thousandths **17.783**

   f) What number did you end up with? **17.783**

Reasoning

1. For each set of numbers below, circle the <u>larger number</u>.

   a) $\frac{34}{100}$ or **(0.43)**

   b) $\frac{721}{1000}$ or **(0.732)**

   c) **$\left(\frac{7}{1000}\right)$** or 0.0032

   d) **(0.05826)** or $\frac{49}{1000}$

2. Write the following fractions in words.

   a) $\frac{3}{10}$ **Three tenths**

   b) $\frac{45}{100}$ **Forty-five hundredths**

   c) $\frac{493}{1000}$ **Four hundred and ninety-three thousandths**