



Place Value Through Space

Place Value and Rounding



Name: _____

Date: _____

Section 1: What Is the Digit Worth?

Write the value of the digit.

Example

In 4.382, the 3 is in the tenths place. Its value is 0.3 (three tenths).

1) In 3.45, what is the value of the 4?

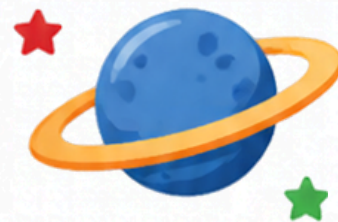
2) In 6.287, what is the value of the 8?

3) In 12.539, what is the value of the 9?

4) In 0.762, what is the value of the 6?

5) In 8.143, what is the value of the 1?





Section 2: Expanded Form

Write each number as a sum of the value of its digits.

Example

$$4.382 = 4 + 0.3 + 0.08 + 0.002$$

1) $3.45 =$

2) $6.207 =$

3) $12.58 =$

4) $0.739 =$

5) $5.164 =$





Section 3: Compare Decimals

Line up the decimal points. Write $>$, $<$ or $=$.

Example

Compare 0.45 and 0.5. Line up the decimal points: 0.45 and 0.50. 45 hundredths is less than 50 hundredths, so $0.45 < 0.5$.

1) 0.6

0.58

2) 0.45

0.405

3) 3.07

3.7

4) 0.30

0.3

5) 2.5

2.55





Section 4: Round Decimals



Look at the digit to the right. 5 or more, round up.

Example

Round 4.382 to the nearest tenth. The hundredths digit is 8, so round up. 4.382 rounds to 4.4.

1) Round 3.47 to the nearest tenth.

2) Round 6.234 to the nearest hundredth.

3) Round 12.58 to the nearest whole number.

4) Round 0.846 to the nearest tenth.

5) Round 7.395 to the nearest hundredth.





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Answer Key



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Section 1: What Is the Digit Worth?

Section 1: 1) 0.4 2) 0.08 3) 0.009 4) 0.06 5) 0.1

Section 2: Expanded Form

1) $3 + 0.4 + 0.05$

2) $6 + 0.2 + 0.007$

3) $10 + 2 + 0.5 + 0.08$

4) $0.7 + 0.03 + 0.009$

5) $5 + 0.1 + 0.06 + 0.004$

Section 3: Compare Decimals

Section 3: 1) $>$ 2) $>$ 3) $<$ 4) $=$ 5) $<$

Section 4: Round Decimals

Section 4: 1) 3.5 2) 6.23 3) 13 4) 0.8 5) 7.40

