

Reasoning and Problem Solving Hundredths as Decimals

Developing

- 1a. Jim is correct. 6 tenths and 8 hundredths make 68 hundredths.
- 2a. Various answers, for example:
 0.79 and $\frac{79}{100}$; 0.29 and $\frac{29}{100}$; 0.92 and $\frac{92}{100}$
- 3a. No, 22 hundredths are greater than 14 hundredths.

Expected

- 4a. Lucy is correct. 0 tenths and 6 hundredths together make 6 hundredths.
- 5a. Various answers, for example:
 0.25 and $\frac{25}{100}$; 0.02 and $\frac{2}{100}$; 0.52 and $\frac{52}{100}$
- 6a. Yes, 0 hundredths and 9 tenths is greater than 9 hundredths and 0 tenths.

Greater Depth

- 7a. Joshua is correct, 85 hundredths is 10 hundredths more than 75 hundredths.
- 8a. Various answers, for example:
 2.84 and $2\frac{84}{100}$; 1.40 and $1\frac{40}{100}$; 4.08 and $4\frac{8}{100}$
- 9a. No. 1.01 is not greater than 1.10. Either 1.01 should be a number greater than 1.10, or = should be replaced by >

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Developing

- 1b. Zen is correct. 24 hundredths should have 2 as the tenths digit and 4 as the hundredths digit.
- 2b. Various answers, for example:
 0.53 and $\frac{53}{100}$; 0.65 and $\frac{65}{100}$; 0.36 and $\frac{36}{100}$
- 3b. Yes, 31 hundredths are greater than 23 hundredths.

Expected

- 4b. Callum is correct. To show 90 hundredths the decimal needs 9 as the tenths digit and zero as the hundredths digit.
- 5b. Various answers, for example:
 0.04 and $\frac{4}{100}$; 0.72 and $\frac{72}{100}$; 0.47 and $\frac{47}{100}$
- 6b. No, 6 tenths and 8 hundredths is less than 8 tenths and 6 hundredths.

Greater Depth

- 7b. John is correct, 1.51 is one hundredth greater than the fractions, which has 150 hundredths.
- 8b. Various answers, for example:
 1.93 and $1\frac{93}{100}$; 3.50 and $3\frac{50}{100}$; 5.71 and $5\frac{71}{100}$
- 9b. Yes. 1.21 is greater than 1.20 and 1.20 is greater than 1.12.