



NAME _____ DATE _____

QUESTIONS ON REASONING

Problem solving questions by understanding.

Example:

Noah and Charlie have a problem. Noah thinks 42 tens is less than 390. Charlie thinks 42 tens is greater than 390. Who is correct? Explain your thinking below.

$$42 \text{ tens} = 40 \text{ tens} + 2 \text{ tens}$$

$$= \underline{400} + \underline{20}$$

$$= \underline{420}$$

$$1 \text{ ten} = 10 \text{ ones}$$

$$10 \text{ tens} = 100$$

∴ 42 tens is greater than 390.

∴ Charlie is correct.

-
- 1) Shelley and Norah have a problem. Shelley thinks 9 tens + 8 ones is less than 100. Norah thinks 9 tens + 8 ones is greater than 100. Who is correct? Explain your thinking below.

$$9 \text{ tens} + 8 \text{ ones} = 90 + 8$$

$$1 \text{ ten} = 10 \text{ ones}$$

$$= \underline{\quad}$$

∴ 9 tens + 8 ones is than 100.

∴ is correct.