

Write the following numbers in expanded notation, renaming in terms of the place value parts:

- a) 25.6
- b) 160.375
- c) 3 451.4672

SAMPLE ANSWERS

**25.6**

$$20 + 5 + 0.6$$

or

$$(2 \times 10) + (5 \times 1) + (6 \times 0.1)$$

or

$$2 \text{ tens} + 5 \text{ ones} + 6 \text{ tenths}$$

or

$$25 \text{ ones} + 6 \text{ tenths}$$

or

$$256 \text{ tenths}$$

**160.375**

$$100 + 60 + 0.3 + 0.07 + 0.005$$

or

$$(1 \times 100) + (6 \times 10) + (3 \times 0.1) + (7 \times 0.01) + (5 \times 0.001)$$

or

$$1 \text{ hundred} + 6 \text{ tens} + 3 \text{ tenths} + 7 \text{ hundredths} + 5 \text{ thousandths}$$

or

$$16 \text{ tens} + 375 \text{ thousandths}$$

or

$$1 \text{ hundred} + 6 \text{ tens} + 37 \text{ hundredths} + 5 \text{ thousandths}$$

**3 451.4672**

$$3000 + 400 + 50 + 1 + 0.4 + 0.06 + 0.007 + 0.0002$$

or

$$3 \text{ thousand} + 4 \text{ hundred} + 5 \text{ tens} + 1 \text{ one} + 4 \text{ tenths} + 6 \text{ hundredths} + 7 \text{ thousandths} + 2 \text{ ten thousandths}$$

or

$$34 \text{ hundreds} + 51 \text{ ones} + 46 \text{ hundredths} + 72 \text{ ten thousandths}$$

or

$$345 \text{ tens} + 1 \text{ one} + 467 \text{ thousandths} + 2 \text{ ten thousandths}$$