

CHALLENGE #1 p.3

$$40 \text{ jars} \times 500 \text{ mL} = 20\,000 \text{ mL} = 20 \text{ L}$$

$$20 \text{ jars} \times 400 \text{ mL} = 8\,000 \text{ mL} = 8 \text{ L}$$

$$28 \text{ L}$$

METHOD

1. Identify variables:

x : # of 500 mL jars

y : # of 400 mL jars

2. Translate inequalities:

$$x \geq 20$$

$$x \leq 40$$

$$y \geq 20$$

$$x + y \geq 50$$