

$$1: d = 2.5t$$

$$2: d = 3(t-5)$$

$$2.5t = 3(t-5)$$

$$2.5t = 3t - 15$$

$$2.5t - 3t = -15$$

$$-0.5t = -15$$

$$t = -15 / -0.5$$

$$t = 30 \text{ minutes}$$

$$1: d = 2.5t = 2.5 \times 30 = 75 \text{ km}$$

$$2: d = 3(t-5) = 90 - 15 = 75 \text{ km}$$