## 5.8 Solving Ratio Problems - Notes

**Example (1):** Find the value of each variable.

a) 
$$5: x = 40:56$$

$$\frac{40x = 280}{40}$$

c) 
$$y: 6 = 21: 18$$

**b)** 
$$49:35 = 14:n$$

**d)** 
$$3:8 = z:64$$

**Example (2):** This is a photo of a father and his daughter.

In the photo, the father's height is 8 cm and the daughter's height is 6 cm.

The father's actual height is 1.8 m. ×106 = 180cm

What is the actual height of his daughter?

father's : daughter's

1.35m isther daughter's height

KHD Meins Comm

## **Example (3):** A bike is in fourth gear.

When the pedals turn 3 times, the rear wheel turns 7 times. When the pedals turn twice, how many time does the rear wheel turn?

Pedal: rear wheel

It turns about 4.7 times