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height (in cm) x_i	560	1050	x_3
length of shadow (in cm) y_i	320	y_2	500

x and y are directly proportional

$$\therefore \frac{x_1}{y_1} = \frac{x_2}{y_2}$$

$$\frac{560}{320} = \frac{1050}{y_2}$$

$$\Rightarrow y_2 = \frac{1050 \times 320}{560}$$

$$\Rightarrow y_2 = 600$$

$$\frac{x_1}{y_1} = \frac{x_3}{y_3}$$

$$\frac{560}{320} = \frac{x_3}{500}$$

$$\Rightarrow x_3 = \frac{560 \times 500}{320}$$

$$\Rightarrow x_3 = 875$$

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distance travelled (in km) x_i	14	x_2
time taken (in h) y_i	$\frac{25}{60}$	5

$\therefore x$ and y vary directly

$$\therefore \frac{x_1}{y_1} = \frac{x_2}{y_2}$$

$$\frac{14}{\frac{25}{60}} = \frac{x_2}{5}$$

$$\Rightarrow \frac{14 \times 60 \times 5}{25} = x_2$$

$$\Rightarrow x_2 = 168$$