

① For each point, it approximately equals the ratio of the point's height to its distance to the right of the stretch axis.

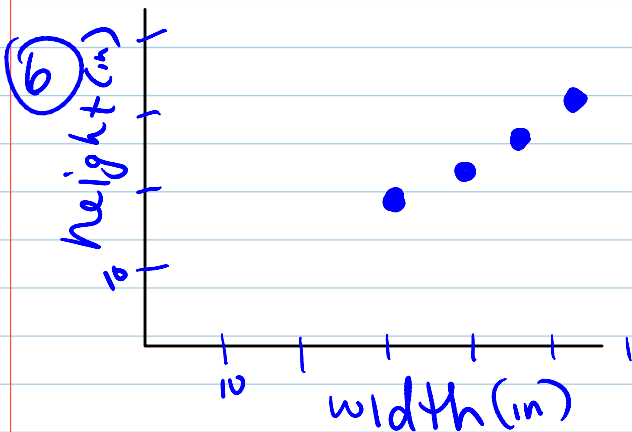
② $\frac{\text{height}}{\text{width}} \quad \frac{18}{32} \stackrel{720}{\times} \frac{22.5}{40} \stackrel{720}{\times}$ yes. The ratios are in proportion.

③ $\frac{h}{w} : \frac{18}{32} = \frac{9}{16} \quad \frac{22.5}{40} \stackrel{\div 2.5}{=} \frac{9}{16} \quad \frac{27}{48} = \frac{9}{16} \quad \frac{31.5}{56} \stackrel{\div 3.5}{=} \frac{9}{16}$

yes. The height & width are in a 9:16 ratio.

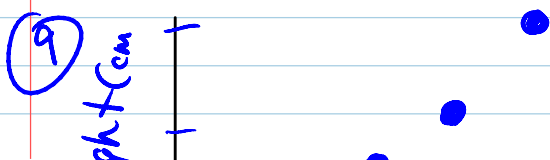
④ $h = \frac{9}{16} w$ or $w = \frac{16}{9} h$

⑤ Neither depends on the other.

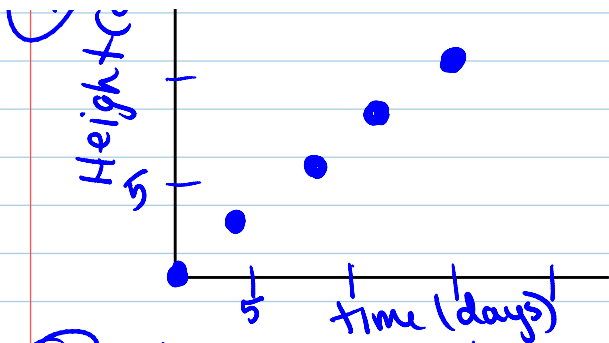


⑦ (0,0) would not make sense because no TV has dimensions 0x0.

⑧ dependent: height independent: time



⑩ yes (0,0) makes sense: After 0 days it grew 0 cm.

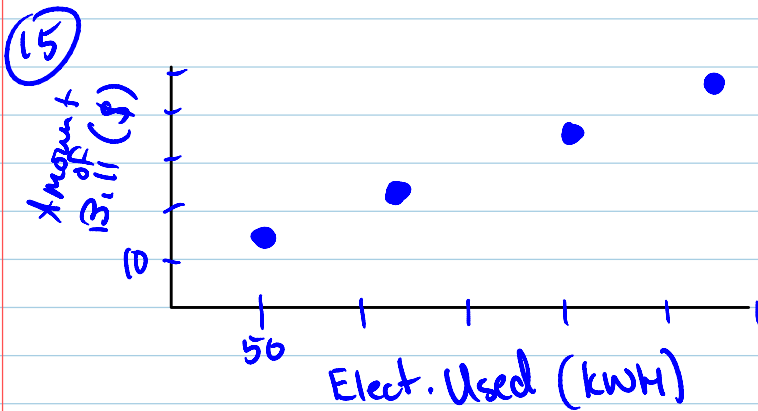


(11) Yes, the ratio of height to time is the same throughout the experiment.

(12) $\frac{3 \text{ cm}}{4 \text{ days}} = 0.75 \text{ cm/day}$

(13) $h = \frac{3}{4}t$

(14) dependent: Amount of Bill independent: Electricity used



(16) No, the ratios do vary for each different point.