① $\frac{2200}{1350} = \frac{x}{1675} \Rightarrow x = \$2729.63$

② a) $r \cdot t = w$

painter rate

$\frac{2300 ft^2}{10.5 hrs} \approx \frac{219 ft}{hr}$

apprentice rate

$219 \frac{ft}{hr} \times .6 = 131.429 \frac{ft}{hr}$

$\frac{2300}{131.429} = 17.5 hrs.$

b) $\frac{2300}{219 + 131.429} = 6.6 hours$

③ $2 \times 2 = 4 in^2$

$8 \times 10 = 80 in^2$

$\frac{4}{18} = \frac{80}{x}$ $x = 360$ gazelles

④ $\frac{7250}{265,000} = \frac{x}{295000}$ $x = \$8,071$

⑤ $12'6'' \times 9'4'' \Rightarrow 12\frac{1}{2}' \times 9\frac{1}{3}' \times 2 \Rightarrow 25cm \times \frac{56}{3} cm (\approx 14.7$

⑥ $\frac{7cm}{2} = 3.5 ft$ or $3'6''$

⑦ $\frac{12}{16} = \frac{6}{8} = \frac{3}{4}$ $\therefore$ ratio of areas $= \left(\frac{4}{3}\right)^2 = \frac{16}{9}$

Area ratio is $\frac{\pi R^2}{\pi r^2} = \left(\frac{R}{r}\right)^2$

⑧ $\frac{3T}{5600} = \frac{x}{7000}$ $x = 3.75 T$

⑨ $\frac{60 in}{100 total} = \frac{x}{2220}$ $x = 1332$ in state