7a) 
$$\hat{V} = \hat{X} = 120.7$$

7c)  $\hat{X} \sim \text{Binnerval}(100)$   $\theta = \frac{8}{10} = \frac{8}{10}$ 

8 0)  $\frac{80-12}{60} = \frac{85}{150}$ 

9 a)  $E(\frac{1}{150}\sum_{i=1}^{150} x_i)$   $\frac{1}{150} = \frac{1}{150}\sum_{i=1}^{150} x_i$   $\frac{1}{150} = \frac{1}{150}\sum_{i=1}^{150} x_i$ 

10.0) 
$$OE(x) = E(h \frac{x}{2}x) \frac{1}{h} = \mu$$
  
 $OVON(x) = \frac{1}{h}o^{2}$   
 $OE(x) = \frac{1}{h}o^{2} + \mu^{2} \neq \mu^{2}$   
Because  $OE(x) = \frac{1}{h}o^{2} + \mu^{2} \neq \mu^{2}$   
 $OE(x) = \frac{1}{h}o^{2} + \mu^{2} \neq \mu^{2}$   
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 $OE(x) = \frac{1}{h}o^{2} + \mu^{2} + \mu^{2} + \mu^{2} + \mu^{2}$   
 $OE(x) = \frac{1}{h}o^{2} + \mu^{2} +$ 

120) 
$$S_{p}^{2} = \frac{(n(-1)S_{1}^{2} + (n_{2}-1)S_{2}^{2})}{n_{1}+n_{n}-2}$$

$$E(S_{p}^{2}) = D^{2}$$

$$E(S_{p}^{2}) = E(n-1)S_{1}^{2} + (n_{2}-1)S_{2}^{2}$$

$$n_{1}+n_{2}-2$$

$$E(S_{p}^{2}) = \frac{(n_{1}-1)S_{1}^{2} + (n_{2}-1)E_{S_{2}^{2}}}{n_{1}+n_{2}-2}$$

$$E(S_{p}^{2}) = \frac{(n_{1}-1)H(n_{2}-1)}{n_{1}+n_{2}-2} = D^{2}$$

$$n_{1}+n_{2}-2$$

$$T(S_{p}^{2}) = \frac{(n_{1}-1)H(n_{2}-1)}{n_{1}+n_{2}-2} = D^{2}$$

 $E(x) = \int_{-\infty}^{\infty} x \cdot f(x) dx = \int_{-1}^{1} x \cdot f(x) dx = \int_{-1}^{1} (x)^{-1} \frac{1}{2} \left( \frac{x^{2}}{2} + \frac{0 \cdot x^{3}}{3} \right) \Big|_{-1}^{1}$   $= \int_{-1}^{1} (x)^{-1} \frac{1}{2} \left( \frac{12}{2} + \frac{0 \cdot 1^{2}}{3} \right) - \left( \frac{-12}{2} + \frac{0 \cdot (-1)^{3}}{3} \right) = \frac{6}{3}$   $= (6) = E(3x) = 3E(x) = 3 \cdot 6 = 6$   $= \int_{-1}^{\infty} x \cdot f(x) dx = \int_{-1}^{1} \frac{1}{2} \left( \frac{x^{2}}{2} + \frac{0 \cdot x^{3}}{3} \right) \Big|_{-1}^{1}$   $= \int_{-1}^{\infty} x \cdot f(x) dx = \int_{-1}^{1} \frac{1}{2} \left( \frac{x^{2}}{2} + \frac{0 \cdot x^{3}}{3} \right) \Big|_{-1}^{1}$   $= \int_{-1}^{\infty} x \cdot f(x) dx = \int_{-1}^{1} \frac{1}{2} \left( \frac{x^{2}}{2} + \frac{0 \cdot x^{3}}{3} \right) \Big|_{-1}^{1}$   $= \int_{-1}^{\infty} x \cdot f(x) dx = \int_{-1}^{1} \frac{1}{2} \left( \frac{x^{2}}{2} + \frac{0 \cdot x^{3}}{3} \right) \Big|_{-1}^{1}$   $= \int_{-1}^{\infty} x \cdot f(x) dx = \int_{-1}^{1} \frac{1}{2} \left( \frac{x^{2}}{2} + \frac{0 \cdot x^{3}}{3} \right) \Big|_{-1}^{1}$   $= \int_{-1}^{\infty} x \cdot f(x) dx = \int_{-1}^{1} \frac{1}{2} \left( \frac{x^{2}}{2} + \frac{0 \cdot x^{3}}{3} \right) \Big|_{-1}^{1}$   $= \int_{-1}^{\infty} x \cdot f(x) dx = \int_{-1}^{\infty} \frac{1}{2} \left( \frac{x^{2}}{2} + \frac{0 \cdot x^{3}}{3} \right) \Big|_{-1}^{1}$   $= \int_{-1}^{\infty} x \cdot f(x) dx = \int_{-1}^{\infty} \frac{1}{2} \left( \frac{x^{2}}{2} + \frac{0 \cdot x^{3}}{3} \right) \Big|_{-1}^{\infty}$   $= \int_{-1}^{\infty} x \cdot f(x) dx = \int_{-1}^{\infty} \frac{1}{2} \left( \frac{x^{2}}{2} + \frac{0 \cdot x^{3}}{3} \right) \Big|_{-1}^{\infty}$   $= \int_{-1}^{\infty} x \cdot f(x) dx = \int_{-1}^{\infty} \frac{1}{2} \left( \frac{x^{2}}{2} + \frac{0 \cdot x^{3}}{3} \right) \Big|_{-1}^{\infty}$   $= \int_{-1}^{\infty} x \cdot f(x) dx = \int_{-1}^{\infty} \frac{1}{2} \left( \frac{x^{2}}{2} + \frac{0 \cdot x^{3}}{3} \right) \Big|_{-1}^{\infty}$   $= \int_{-1}^{\infty} x \cdot f(x) dx = \int_{-1}^{\infty} \frac{1}{2} \left( \frac{x^{2}}{2} + \frac{0 \cdot x^{3}}{3} \right) \Big|_{-1}^{\infty}$   $= \int_{-1}^{\infty} x \cdot f(x) dx = \int_{-1}^{\infty} x \cdot f(x) dx = \int_{-1}^{\infty} \frac{1}{2} \left( \frac{x^{2}}{2} + \frac{0 \cdot x^{3}}{3} \right) \Big|_{-1}^{\infty}$   $= \int_{-1}^{\infty} x \cdot f(x) dx = \int_{-1}^{\infty$