Answers must be clearly legible, simplified and boxed or circled. Unless otherwise stated write answer as an exact integer or rational or use two decimal accuracy. Units required.

Substitute and Compute using $b_{1}=5.25, b_{2}=5.90, h=7.30, D=12.5, P=13.0 \%$

1) $\frac{b_{1}+b_{2}}{2} \cdot h=$
2) $\frac{D}{\sqrt{1+P^{2}}}=$
3) Round to 4 significant digits: $12.3456+\frac{19}{64} \approx$
4) Round to the nearest whole 64th: 0.2976 in $\approx \overline{64}$

5a) $60 \mathrm{Mw}=$
A) 6 thousand watts
B) 60 thousand watts
C) 600 thousand watts
D) 6 million watts
E) 60 million watts
E) None of These

5b) $55 \mathrm{~km}=$
A) 550 m
B) $5,500,000 \mathrm{~m}$
C) $5,500 \mathrm{~m}$
D) $55,000 \mathrm{~m}$
E) 0.055 m
E) None of These

6a) $0.062 \mathrm{kv}=$
A) 6.2 thousand volts
B) 62 thousand volts
C) 62 volts
D) 6.2 million volts
E) 6.2 volts
E) None of These

6b) $65 \mathrm{mv}=$
A) 650 microvolts
B) 6.5 cv
C) 0.65 volts
D) 65 millionths volts
E) 65 million volts
E) None of These
7) Convert to feet \& inches rounded to the nearest whole $16^{\text {th }}$ inch: $73.6302 \mathrm{ft} \approx$

$$
\ldots \quad \mathrm{ft} \quad \overline{16} \text { in }
$$

8) Convert to feet \& inches rounded to the nearest whole $16^{\text {th }}$ inch: $8.587742 \mathrm{ft} \approx$
$\qquad$ $\mathrm{ft}=\overline{16}$ in
9) A 12 ft pipe is cut into 7 equal pieces. Assuming no loss due to the cuts, what is the size of each piece to the nearest $16^{\text {th }}$ inch. Give answer as ___ ft ___ $\overline{16}$ in
10) Find the area in sq-ft. $A=\frac{a+b}{2} h$ when $a=5^{\prime} 5 \frac{3^{\prime \prime}}{\prime^{\prime \prime}}, b=9^{\prime} 2 \frac{1}{8}{ }^{\prime \prime}, h=3^{\prime} 6 \frac{7}{8^{\prime \prime}}$.
