Review
(1) Calculate area a perimeter

Find the area using Heron's Law:

$$
\text { Area } \Delta=\frac{b \times h}{2}=\frac{10 \times 7}{2}=35 \mathrm{~m}^{2}
$$

(3) $\sqrt{0.49}=0.7$
(2) $\sqrt{36}=\sqrt{6}$
(4) $2(3+4)^{2}+8 \div 2$ BEDMAS
$=2(7)^{2}+8 \div 2$
$=2(49)+8 \div 2$
$=98+8 \div 2$
$=98+4$

* (5)
)


$$
P=6+4+10=20 \mathrm{~cm}
$$

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Exponent Laws
Multiplying Exponents: $a^{m} \times a^{n}=a^{m+n}$
eg 1) $n^{7} \times n^{2}=n^{7+2}=n^{9}$ wry? $\underbrace{(n)^{1}}_{(n)(n)(n)(n)(n)(n)(n)} \times \underbrace{(n)(n)}_{n}$
2) $(-7)^{6} \times(-7)^{-4}=(-7)^{6+(-4)}=(-7)^{2}$

Dividing Exponents: $\quad a^{m} \div a^{n}=a^{m-n}$
3) $y^{5} \div y^{2}=y^{5-2}=y^{3}$
4) $2^{3} \div 2^{6}=2^{3-6}=4^{-3}$


Evaluating Expressions
$\Rightarrow$ Always simplify first (if possible)
eg 5) $\left.(-2)^{4} \times(-2)^{7}=(-2)^{4+7}=(-2)^{11}\right]=$ calculator $\frac{x^{\square}}{\triangle^{x}}=-2048$
b) $3^{2} \times 3^{4} \div 3^{3}=3^{2+4-3}=3^{3}=27$

$$
\begin{aligned}
& \text { 7) }(-10)^{4}\left[(-10)^{6} \div(-10)^{4}\right]-10^{7} \\
& =(-10)^{4}\left[(-10)^{6-4}\right] \quad-10^{7} \\
& =(-10)^{4}\left[(-10)^{2}\right] \quad-10^{7} \\
& =(-10)^{1+2} \quad-10^{7} \\
& =(-10)^{6} \quad-10^{7} \\
& =+1000000 \quad-10,000,000 \\
& =-9000000
\end{aligned}
$$

Assignment: UIL2 wKSt 1-4:(A)(C),(G), (G) 5, 6, 7,8(AC)(G)

