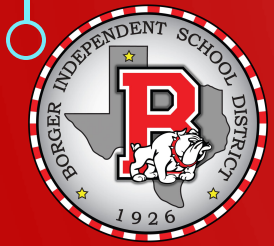


BOARD NOTES

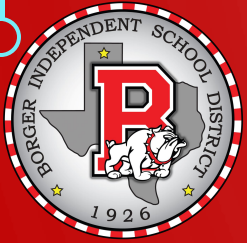
28 JANUARY 2020





2A.7 (G) rewrite radical expressions that contain variables to equivalent forms;
2A.7 (H) solve equations involving rational exponents;

We will be able to rewrite radical expressions to equivalent forms.

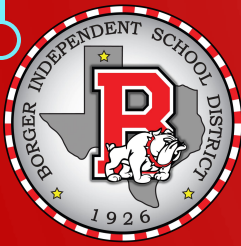


WHAT WE NEED:

- TI-84

I WILL BE ABLE TO COMPLETE MY HOMEWORK GIVEN THE

- Equation



$$\sqrt{\text{Root} \left(\# \right)^{\text{Power}}}$$

\Rightarrow #

$$\left(\sqrt{\text{Root} \left(\# \right)} \right)^{\text{Power}}$$

$$\sqrt[5]{-32x^5y^{10}} = -2xy^2$$

$$2\sqrt{3} + 3\sqrt{3} = 5\sqrt{3}$$

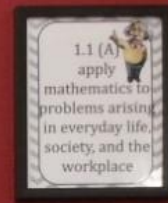
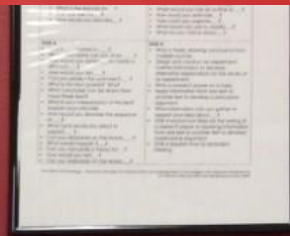
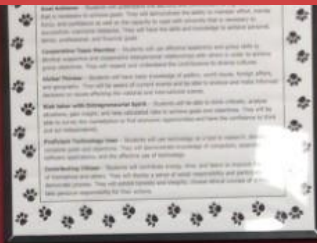
$$5\sqrt{24} \cdot 3\sqrt{8}$$

$$= 15\sqrt{192}$$

$$= 15\sqrt{16} \cdot \sqrt{12} = 15 \cdot 4\sqrt{12}$$

$$= 60\sqrt{12} = 60\sqrt{4} \cdot \sqrt{3}$$

$$= 120\sqrt{3}$$





1.1.11
analyze
mathematical
relationships to
connect
and communicate
mathematical ideas

1.1.12
display, explain,
and justify
mathematical ideas
and arguments
using precise
mathematical
language in
written or oral
communication



$$\begin{aligned}\sqrt{48} &= \sqrt{6} \cdot \sqrt{8} = \sqrt{6} \cdot \sqrt{2} \cdot \sqrt{4} = 2\sqrt{12} \\ &= 2\sqrt{4} \cdot \sqrt{3} \\ &= 2 \cdot 2\sqrt{3} \\ &= 4\sqrt{3}\end{aligned}$$
$$\begin{aligned}6 \cdot 8 & \quad 2\sqrt{50} - \sqrt{245} + 3\sqrt{125} \\ 24 \cdot 2 & \quad = 2\sqrt{25 \cdot 2} - \sqrt{49 \cdot 5} + 3\sqrt{25 \cdot 5} \\ 12 \cdot 4 & \quad = 10\sqrt{2} - 7\sqrt{5} + 15\sqrt{5} \\ 3 \cdot 16 & \quad = 10\sqrt{2} + 8\sqrt{5}\end{aligned}$$

$$\begin{aligned}\sqrt{48} &= \sqrt{3} \cdot \sqrt{16} \\ &= 4\sqrt{3}\end{aligned}$$

$$\begin{aligned}\sqrt{16} \\ &= \sqrt{4 \cdot 4} \\ &= 4\end{aligned}$$

$$\begin{aligned}\sqrt{16} &= 4 \\ 4^2 &= 16\end{aligned}$$



♡ - - - - ♡
14
days until
Valentine's
Day
♡ - - - - ♡

$$\sqrt[5]{64} = \sqrt[5]{32 \cdot 2} = 2\sqrt[5]{2}$$

$$\#^5 = 64 = \sqrt[5]{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2}$$

$$\sqrt[5]{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2} = 2$$

$$\sqrt{18m^3} = 3m\sqrt{2m}$$

$$\sqrt{18} = \sqrt{9 \cdot 2}$$

$$= 3\sqrt{2}$$

$$\sqrt{m^3} = \sqrt{m \cdot m \cdot m}$$

$$= m\sqrt{m}$$

$$\sqrt[4]{32x^6} = \sqrt[4]{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot x \cdot x \cdot x \cdot x \cdot x}$$

$$= 2x\sqrt[4]{2x^2}$$

$$\sqrt[3]{-64a^6b^7} = -4a^2b^2\sqrt[3]{b}$$

$$\sqrt[3]{(-4)^3(a^3)(a^3)(b^3)(b^3)b}$$

$$-4a \cdot a$$