

SAT NC Bell Work Wednesday 09/19

Late start

- For a positive real number x , where $x^8 = 2$ what is the value of x^{24} ?

a) $\sqrt[3]{24}$

b) 4

c) 6

d) 8

BELL SCHEDULE 2018-2019		
	Regular Bells	Late Start Bells
1st Period	7:20 - 8:18	8:20 - 9:08
2nd Period	8:25 - 9:23	9:15 - 10:03
3rd Period	9:30 - 10:28	10:10 - 10:58
4th Period	10:35 - 11:33	11:05 - 11:53
LUNCH C	11:35 - 12:05	11:57 - 12:27
5th Period	12:12 - 1:10	12:32 - 1:20
6th Period	1:17 - 2:15	1:27 - 2:15

$$\sqrt[n]{x^m} = (\sqrt[n]{x})^m = x^{\frac{m}{n}}$$

1st $\frac{24}{8} = 3$ $2^3 = 8$

2nd $\sqrt[8]{x^8} = 2$ challenge $\rightarrow x = \sqrt[8]{2}$

$x^{24} = (\sqrt[8]{2})^{24}$ NO calc $\rightarrow 2^{\frac{24}{8}} = 2^3 = 8$

3rd $(x^8)^3 = (2)^3 \rightarrow x^{24} = 8$

4th $1x^8 + 1x^8 + 1x^8 = 2+2+2=6$
 $3x^8 \neq x^{24}$

$$x^8 \cdot x^8 \cdot x^8 = x^{24}$$

$$2 \cdot 2 \cdot 2 = 8$$