

November 4, 2014<sup>1<sup>st</sup></sup>  
*Starter* 236~~8~~ \_ \_<sup>2<sup>nd</sup></sup>

What is the largest 6-digit number that satisfies this condition?

Each digit, starting at the 3rd, equals the product of the 2 digits immediately before it.



*Meordian*

## 11/4 Order of operations with rational numbers

**P**arentheses


( ), [ ], | |

**E**xponents

$$\begin{array}{ll} -4^2 & (-4)^2 \\ = -16 & = 16 \end{array}$$

**M**ultiply

**D**ivide

Work together  
from Left to Right 

**A**dd

**S**ubtract

Work together  
from Left to Right

Try these...

$$\begin{aligned} & |(-4.3)|^2 \\ &= 4.3^2 \\ &= 18.49 \end{aligned}$$

$$\begin{array}{r} 4.3 \\ 4.3 \\ \hline 129 \\ 172 \\ \hline 1849 \end{array}$$

$$\begin{aligned} & \left| -\frac{4.59}{5.6} \right| \\ &= |-.82| \\ &= 0.82 \end{aligned}$$

$$\begin{array}{r} .819 \\ 5.6 \overline{)4.5900} \\ \underline{-448} \\ 110 \\ \underline{-56} \\ 540 \\ \underline{-504} \\ 36 \end{array}$$

$\approx \frac{56}{530}$

$$\begin{array}{r} 4.56 \\ \underline{448} \\ 8 \end{array}$$
$$\begin{array}{r} 56 \\ \underline{504} \\ 9 \end{array}$$

$$\begin{aligned} & (-0.1)^2 + (+2.5) \\ &= 0.01 + 2.5 \\ &= 2.51 \end{aligned}$$

$$\begin{array}{r} -0.1 \\ -0.1 \\ \hline .01 \end{array} \quad + \quad \begin{array}{r} 2.50 \\ 0.01 \\ \hline 2.51 \end{array}$$

$$\begin{aligned} & \frac{3}{5} + \left(2\frac{5}{6}\right)\left(\frac{1}{2}\right) \\ &= \frac{3}{5} + \frac{5}{12} \\ &= 2\frac{1}{60} \end{aligned}$$

$$\begin{array}{r} \frac{17}{6} \cdot \frac{1}{2} \\ = \frac{17}{12} \end{array} \quad + \quad \begin{array}{r} \frac{5}{12} \cdot \frac{25}{60} \\ \frac{3}{5} \cdot \frac{36}{60} \\ \hline \frac{61}{60} \end{array}$$

$$\frac{\left(2\frac{2}{3}\right)^2}{-2}$$

$$= \frac{7\frac{1}{9}}{-2}$$

$$= \boxed{-3\frac{5}{9}}$$

$$2\frac{2}{3} \cdot 2\frac{2}{3} \quad 7\frac{1}{9} \div (-2)$$

$$= \frac{8}{3} \cdot \frac{8}{3} \quad = \frac{64}{9} \cdot \frac{-1}{2}$$

$$= \frac{64}{9} \quad = -\frac{32}{9}$$

$$= 7\frac{1}{9}$$

$$\left(-2\frac{2}{3}\right)^2 - \frac{3}{5}$$

$$= 7\frac{1}{9} - \frac{3}{5}$$

$$= \boxed{6\frac{23}{45}}$$

$$-\frac{8}{3} \cdot \frac{8}{3} \quad \frac{64}{9} \cdot \frac{-1}{2}$$

$$= \frac{64}{9} \quad = -\frac{32}{9}$$

$$\begin{array}{r} 6\frac{1}{9} \frac{50}{45} \\ - \frac{3}{5} \frac{27}{45} \\ \hline 6\frac{23}{45} \end{array}$$

Homework

Blue WS9

Due Friday