

1. Write in standard form: 5 million, 4 thousand, eight hundred

5,004,800

2. Divide:  $0.12 \div 0.8$

$$\begin{array}{r} 0.15 \\ 0.8 \overline{) 0.120} \\ \underline{8 \phantom{0}} \\ 40 \end{array}$$

3.  $5^6 \times 2^6 =$  Leave your answer in exponential notation.

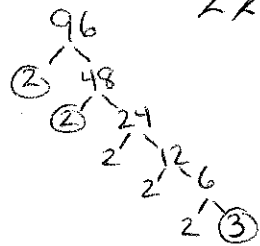
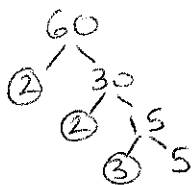
$$(5 \times 2)^6 = 10^6$$

4.  $5^6 \div 5^6 =$  Simplify your answer as much as possible.

$$5^{(6-6)} = 5^0 = 1 \quad \left(\frac{5}{5}\right)^6 = 1^6 = 1 \quad \frac{5^6}{5^6} = 1$$

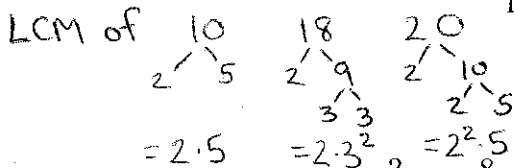
5.  $9 - 3(3 - 10) = 9 - 3(-7) = 9 + (-3)(-7) = 9 + 21 = 30$

6. Simplify to lowest terms:  $\frac{60}{96} = \frac{2 \cdot 2 \cdot 3 \cdot 5}{2 \cdot 2 \cdot 2 \cdot 2 \cdot 3} = \frac{5}{2 \cdot 2 \cdot 2} = \frac{5}{8}$  or  $\frac{60 \div 12}{96 \div 12} = \frac{5}{8}$



$$\text{GCF} = 2^2 \cdot 3 = 12$$

7. Find the least common denominator:  $\frac{9}{10}, \frac{5}{18}, \frac{19}{20}$



$$\text{LCM} = 2^2 \cdot 3^2 \cdot 5 = 4 \cdot 9 \cdot 5 = 180$$

8. Find the equivalent fraction:  $\frac{1}{8} = \frac{8}{64}$

$$\frac{1}{8} \leftarrow \frac{2 \cdot 8 = 8}{8 \cdot 8 = 64} = \frac{8}{64}$$

$$\text{or } \frac{x}{8} = \frac{8}{64} \rightarrow 64x = 64 \rightarrow x = \frac{64}{64} = 1$$

$$\text{so } \frac{1}{8} = \frac{8}{64}$$

$$\text{or } \frac{2 \times 8 = 8}{8 \times 8 = 64} \rightarrow \frac{1}{8}$$