

Quiz :

$$1.) 6 + 21 \div 7 = 9$$

6+3 ✓

$$2.) 6^2 - 3 \cdot 4$$

$$36 - 3 \cdot 4$$


$$36 - 12 = 24$$

$$15.) \quad \frac{2^4 \times 5 + 8}{4}$$

$$\begin{array}{c} 2 \cdot 2 \cdot 2 \cdot 2 \\ \underbrace{\quad} \quad \underbrace{\quad} \\ 4 \cdot 4 \\ 16 \end{array}$$

$$\frac{16 \times 5 + 8}{4}$$

$$\frac{80 + 8}{4} = 22$$

$$3 + 4 \div 5 - 6$$


$$\frac{3+4}{5-6} = \frac{7}{-1} = -7$$

$$\frac{5(\underline{12-5}) + 13}{\underline{6+2}}$$

$$\frac{5(7) + 13}{8}$$

$$\frac{35 + 13}{8}$$

$$\frac{48}{8}$$

$$= 6$$

## 1.4: Prime Factorization

Example 1: Find the factor pairs

What is a factor pair?  
 $24 = 8 \times 3$

a.) 30

	30
1	30
2	15
3	10
5	6

b.) 29

$$\begin{array}{r|l} 29 & \\ \hline 1 & 29 \end{array}$$

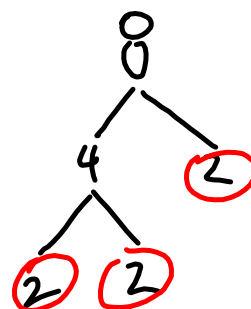
c.) 100

$$\begin{array}{r|l} 100 & \\ \hline 1 & 100 \\ 2 & 50 \\ 4 & 25 \\ 5 & 20 \\ 10 & 10 \end{array}$$

## Prime Factorization:

What is P.F. ?

$$\text{ex } 8 = 2 \times 2 \times 2$$



Ex 2: write the Prime Factorization

a) 24

$$\begin{array}{r} 2 \overline{) 24} \\ \underline{2} \phantom{0} \\ 2 \overline{) 12} \\ \underline{2} \phantom{0} \\ 2 \overline{) 6} \\ \underline{2} \phantom{0} \\ 3 \overline{) 3} \\ \underline{3} \\ 1 \end{array}$$

$$24 = 2 \cdot 2 \cdot 2 \cdot 3$$



b.) 88

$$88 = 2 \cdot 2 \cdot 2 \cdot 11$$

$$\begin{array}{r} 2 \overline{) 88} \\ \underline{2} \phantom{4} \\ 2 \overline{) 44} \\ \underline{2} \phantom{2} \\ 2 \overline{) 22} \\ \underline{2} \phantom{2} \\ 11 \overline{) 11} \\ \underline{11} \\ 1 \end{array}$$

C.) 462

$$462 = 2 \cdot 3 \cdot 7 \cdot 11$$

$$\begin{array}{r} 2 \overline{) 462} \\ \underline{231} \\ 3 \overline{) 231} \\ \underline{117} \\ 11 \overline{) 117} \\ \underline{117} \\ 2 \overline{) 117} \\ \underline{117} \\ 1 \end{array}$$

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