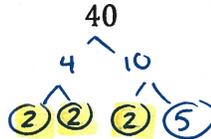
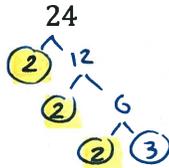


First Name: \_\_\_\_\_

Last Name: \_\_\_\_\_

L14 - EQ - 5.2 Common factors

Q1: What is the Greatest Common Factor (GCF) for the following numbers?



$$\text{GCF} = 2 \cdot 2 \cdot 2$$

$$= 8$$

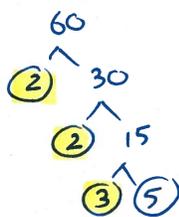
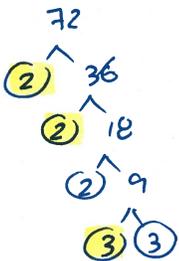
Q2: What is the GCF for the following terms?

$$15x^7y^3$$

$$10x^9y$$

$$\text{GCF} = 5x^7y$$

Q3: (Long Answer) Common factor the expression  $72x^2y^3 + 60x^2yz^3$  (2 marks)



$$\text{GCF} = 12x^2y$$

$$12x^2y(6y^2 + 5z^3)$$

KEY

Q4: (Long Answer) Common factor the expression  $3x^2(x + 2) + 6(x + 2)$  (2 marks)

$$3x^2(x+2) + 6(x+2)$$

$$\text{GCF} = 3(x+2)$$

$$3(x+2)[x^2+2]$$

$$\frac{3x^2(x+2)}{3(x+2)} = x^2$$

$$\frac{6(x+2)}{3(x+2)} = 2$$

**MARKING:**

Beginning	0.0 – 2.5
Progressing	3.0 – 4.0
Competent	4.5 – 5.5
Exemplary	6.0