

# Prime Factorization and Greatest Common Factor Exit Quiz

**Part A Instructions:** Choose the option to answer the questions.

1. What are the prime factors of 45?

(a)  $3 \times 15$

(b)  $9 \times 5$

(c)  $3 \times 3 \times 5$

(d)  $3 \times 5 \times 5$

2. The Greatest common factor (GCF) of 42 and 77 is

(a) 6

(b) 7

(c) 11

(d) 3

3. The Greatest common factor (GCF) of 45 and 90 is

(a) 5

(b) 10

(c) 15

(d) 45

4. Use the GCF and the Distributive Property to express the sum  $30 + 70$  as a product.

(a)  $10(3 + 7)$

(b)  $3(10 + 23)$

(c)  $5(15 + 15)$

(d)  $15(2 + 5)$

**Part B Instructions:** Answer the question below.

5. Draw factor tree of the number 72 and hence find the prime factors.

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