Name _____ Date _____ Time _____

# Factor Trees

**1.** Make factor trees and find the prime factorization for the following numbers.

**Example:** 20

20

```
      20
     /  \
    4  *  5
   / \    \
  2 * 2 * 5
```

20 = 2 * 2 * 5

**a.** 66

**b.** 72

66 = _____

72 = _____
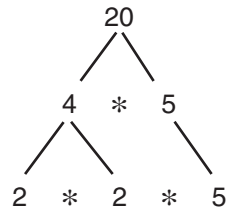
**2.** Write each fraction in simplest form. Use factor trees to help you. Show your work.

**a.** $\frac{20}{66}$ = _____

**b.** $\frac{66}{72}$ = _____

**c.** $\frac{20}{72}$ = _____

**3.** Find the prime factorization for 250. _____

**4. a.** Circle the number that has the most prime factors.

63            32            49            100

**b.** Which has the fewest prime factors? _____

**5.** Simplify the fraction to the right. $\frac{150}{225}$ = _____

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**Practice**

**6.** $\frac{1}{4}$ * 36 = _____

**7.** 0.25 * 360 = _____

**8.** $\frac{1}{3}$ * 90 = _____

**9.** $33\frac{1}{3}$% of 90 = _____

**348**