

Find the greatest common factor.

12 and 16

25 and 10

8 and 12

15 and 40

24 and 36

36 and 32

16 and 24

22 and 20

15 and 25

7 and 13

15, 25 and 45

33, 36 and 15

Find the Least Common Multiple.

8 and 6

7 and 14

24 and 36

9 and 4

14 and 16

5 and 8

2 and 3

4 and 6

7 and 10

3, 4 and 9

4, 8, and 12

3, 5, and 12

A prime number is a whole number greater than 1 with exactly two factors.

A composite number is whole number greater than 1 with more than two factors.

List all the factors of each number and label the number as prime or composite.

13 12 16 8 27 57

17 51 33 61 18 2

Write true or false.

The number 1 is neither prime nor composite.

Every odd number is a prime number.

Every even number is a composite number.

One is a factor of every number.

The number two is a composite number because it is even.

Using a factor tree, find the prime factorization of each number.

32

15

90

12

24

16

8

20

36

153

100

280

27

48

96

Equivalent fractions

Find the missing number.

$$\frac{1}{5} = \frac{?}{45}$$

$$\frac{2}{3} = \frac{14}{?}$$

$$\frac{?}{54} = \frac{5}{6}$$

$$\frac{3}{?} = \frac{15}{50}$$

$$\frac{?}{16} = \frac{18}{32}$$

$$\frac{8}{40} = \frac{?}{5}$$

Compare using $<$, $>$, or $=$.

$$\frac{1}{4} \underline{\hspace{1cm}} \frac{3}{8}$$

$$\frac{2}{3} \underline{\hspace{1cm}} \frac{4}{5}$$

$$\frac{5}{8} \underline{\hspace{1cm}} \frac{10}{16}$$

$$\frac{4}{5} \underline{\hspace{1cm}} \frac{36}{40}$$

$$\frac{2}{5} \underline{\hspace{1cm}} \frac{1}{2}$$

$$\frac{4}{7} \underline{\hspace{1cm}} \frac{3}{8}$$

Exponents

The expression 5^3 (read five to the third power or five cubed) is a short way to write $5 \times 5 \times 5$. The 5 is called the base. The 3 is called the exponent.

$$5^3 = 125$$

Solve each expression.

$$2^5$$

$$7^2$$

$$4^4$$

$$8^3$$

$$6^2$$

$$9^3$$

$$5^4$$

$$1^3$$

$$3^? = 27$$

$$?^2 = 64$$

$$?^2 = 4$$

$$5^? = 5$$

$$?^3 = 8$$

$$7^0 = ?$$