

# Properties of Multiplication Worksheet

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

Date: \_\_\_\_\_

Find the prime factors of the numbers below using the factor tree method.  
Draw a factor tree for each one, listing out all of the factors.

①

Apply the associative property of multiplication to solve these problems:

A

$$(2 \times 3) \times 4 =$$

B

$$5 \times (2 \times 3) =$$

C

$$(7 \times 2) \times 3 =$$

②

Use the commutative property of multiplication to rewrite and solve these problems:

A

$$7 \times 6 = \underline{\quad} \times \underline{\quad} =$$

B

$$8 \times 3 = \underline{\quad} \times \underline{\quad} =$$

C

$$2 \times 9 = \underline{\quad} \times \underline{\quad} =$$

③

Use the distributive property of multiplication to simplify these problems:

A

$$3 \times (4 + 2) =$$

B

$$5 \times (6 + 3) =$$

C

$$2 \times (5 + 7) =$$

④

Use the identity property of multiplication to solve these problems:

A

$$9 \times 1 =$$

B

$$1 \times 6 =$$

C

$$5 \times 1 =$$

⑤

Apply the zero property of multiplication to solve these problems:

A

$$8 \times 0 =$$

B

$$0 \times 5 =$$

C

$$3 \times 0 =$$