

Unit -3 Multiplication.

Time to check 1

1. Fill in the blanks

a. $5 \times \boxed{0} = 0$

b. $8,756 \times \boxed{1} = 8,756$

c. $24,000 \times \boxed{1} = 24,000$

d. $600 \times \boxed{3} = 3 \times 600$

e. $54 \times 751 = 751 \times \boxed{54}$

f. $129 \times 82 = 82 \times \boxed{129}$

2. Without actual multiplication, say the product of these numbers is odd or even. IF the product is even, write E and if it is odd.

a. 675×45 Odd

b. 344×9 Even

c. 722×12 Even

d. 123×3 odd

e. 654×21 Even

f. 775×18 Even

3. Without actual multiplication find product.

a. $456 \times 100 =$ 45600

b. $313 \times 10 =$ 3130

c. $721 \times 1,000 =$ 721000

d. $154 \times 10 =$ 1540

e. $664 \times 1,000 =$ 664000

f. $566 \times 100 =$ 56600

Properties of Multiplication

Time to check

1. Two numbers can be multiplied in any order. Their product remains the same.

Example: $18 \times 7 = 126$; $7 \times 18 = 126$

2. Three numbers can be grouped in any order and then multiplied. Their product remains the same.

Example: $2 \times 3 \times 4 = (2 \times 3) \times 4 = 6 \times 4 = 24$
 $= 2 \times (3 \times 4) = 2 \times 12 = 24$

3. The product of a number and 0 is always 0.

Example: $4 \times 0 = 0$ $12 \times 0 = 0$ $150 \times 0 = 0$

4. The product of a number and 1 is the number itself.

Example: $5 \times 1 = 5$ $12 \times 1 = 12$ $225 \times 1 = 225$

5. The product of an odd and even number is always even.

Example: $932 \times 7 = 6,524$

even odd

6. The product of two odd numbers is always odd.

Example: $75 \times 19 = 1,425$

7. The product of two even numbers is always even.

Example: $96 \times 42 = 4,032$

8. To multiply a number by 10, place a zero to the right of the given number.

Example: $75 \times 10 = 750$; $639 \times 10 = 6,390$

9. To multiply a number by 100, place two zeros to the right of the given number

Examples: $34 \times 100 = 3,400$; $542 \times 100 = 54,200$

10. To multiply a number by 1,000, place three zeros to the right of the given number.

Examples: $23 \times 1,000 = 23,000$; $778 \times 1,000 = 778,000$