Vocabulary

Identity Property of Multiplication
$6 \times 1 = 6$ or $1 \times 6 = 6$

Zero Property of Multiplication
$8 \times 0 = 0$ or $0 \times 8 = 0$

Materials
• Workmat 1
• Counters

Hands On
Multiply with 0 and 1

Objective Use the special properties of 1 and 0 in multiplication.

▶ Explore

Identity Property of Multiplication The product of 1 and any number is that number.
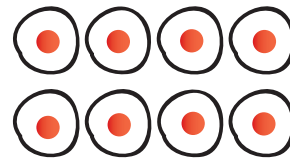
Zero Property of Multiplication The product of any number and 0 is 0.

Question How can you use counters and equal groups to show multiplication by 1 or 0?

Maya has 8 plates. She puts one mango on each plate. How many mangos are there?

1 Draw 8 circles to show the 8 plates.

Put 1 counter in each circle to show the mangos.

2 Write a multiplication sentence to show the total.

$8 \times 1 = 8$
$1 \times 8 = 8$

Solution: There are 8 mangos on the plates.

Maya has 5 baskets. There are no mangos in them.
How many mangos are in the 5 baskets all together?

1 Draw circles to show the baskets.

2 Use counters to show the mangos.
How many counters do you need?

3 Write a multiplication sentence to show the total.