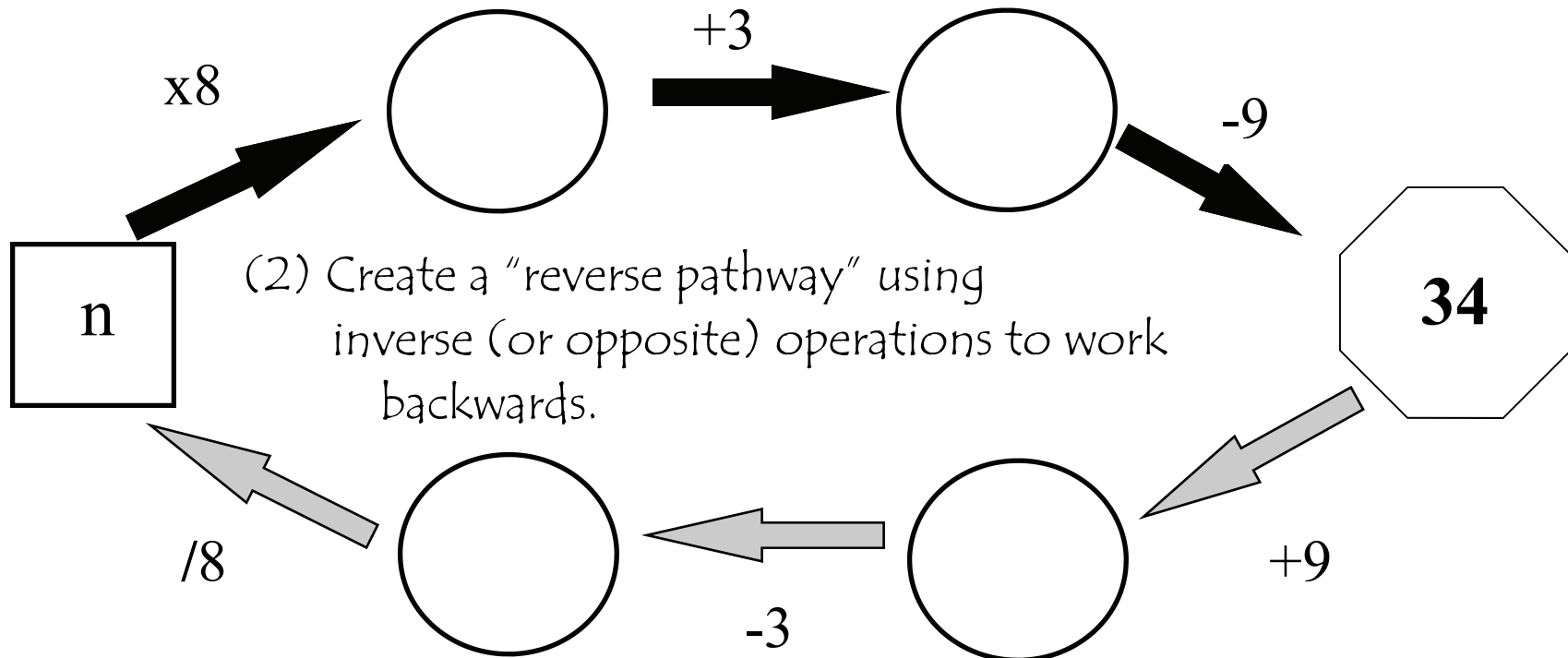


# Making Paths— Example

Grade 4

If you multiply a number by 8, then add 3, then subtract 9, you get 34.  
What's the number?

SOLUTION: (1) Create a pathway using the given operations.



(3) Work backwards from the answer, writing each number in a circle.

(4) Find the missing number ( $n$ ). Check to see that it works on the pathway.

# Making Paths—1

Grade 4

A. If you multiply a number by 2, then add 3, then subtract 1, you get 12.  
What's the number?

B. If you multiply a number by 3, then add 8, then subtract 10, you get 28.  
What's the number?

C. If you multiply a number by 6, then add 3, then subtract 8, you get 49.  
What's the number?

D. If you multiply a number by 4, then add 2, then subtract 7, you get 43.  
What's the number?

## Making Paths—2

Grade 4

A. If you multiply a number by 7, then subtract 6, then add 9, you get 59.

What's the number?

B. If you multiply a number by 4, then subtract 2, then add 5, you get 47.

What's the number?

C. If you multiply a number by 6, then subtract 10, then add 3, you get 29.

What's the number?

D. If you multiply a number by 9, then subtract 3, then add 8, you get 41.

What's the number?

## Making Paths—3

Grade 4

A. If you divide a number by 6, then subtract 5, then add 3, you get 5.  
What's the number?

B. If you divide a number by 9, then multiply by 8, then add 4, you get 60.  
What's the number?

C. If you divide a number by 7, then multiply by 4, then subtract 6, you get 22. What's the number?

D. If you divide a number by 4, then multiply by 9, then add 3, you get 75.  
What's the number?

# Making Paths—4

Grade 4

A. If you add 2 to a number, then multiply by 4, then subtract 3, then divide by 5, you get 9.  
What's the number?

B. If you add 1 to a number, then multiply by 8, then subtract 6, then divide by 10, you get 5.  
What's the number?

C. If you subtract 6 from a number, then multiply by 7, then subtract 3, then divide by 5, you get 12.  
What's the number?

D. If you divide a number by 8, then multiply by 9, then add 8, then divide by 5, you get 7.  
What's the number?

# Making Paths—5

Grade 4

A.

B.

C.

D.

# Making Paths—Answers

Grade 4

## Making Paths—1

A. 5

B. 10

C. 9

D. 12

## Making Paths—2

A. 8

B. 11

C. 6

D. 4

## Making Paths—3

A. 42

B. 63

C. 49

D. 32

## Making Paths—4

A. 10

B. 6

C. 15

D. 24