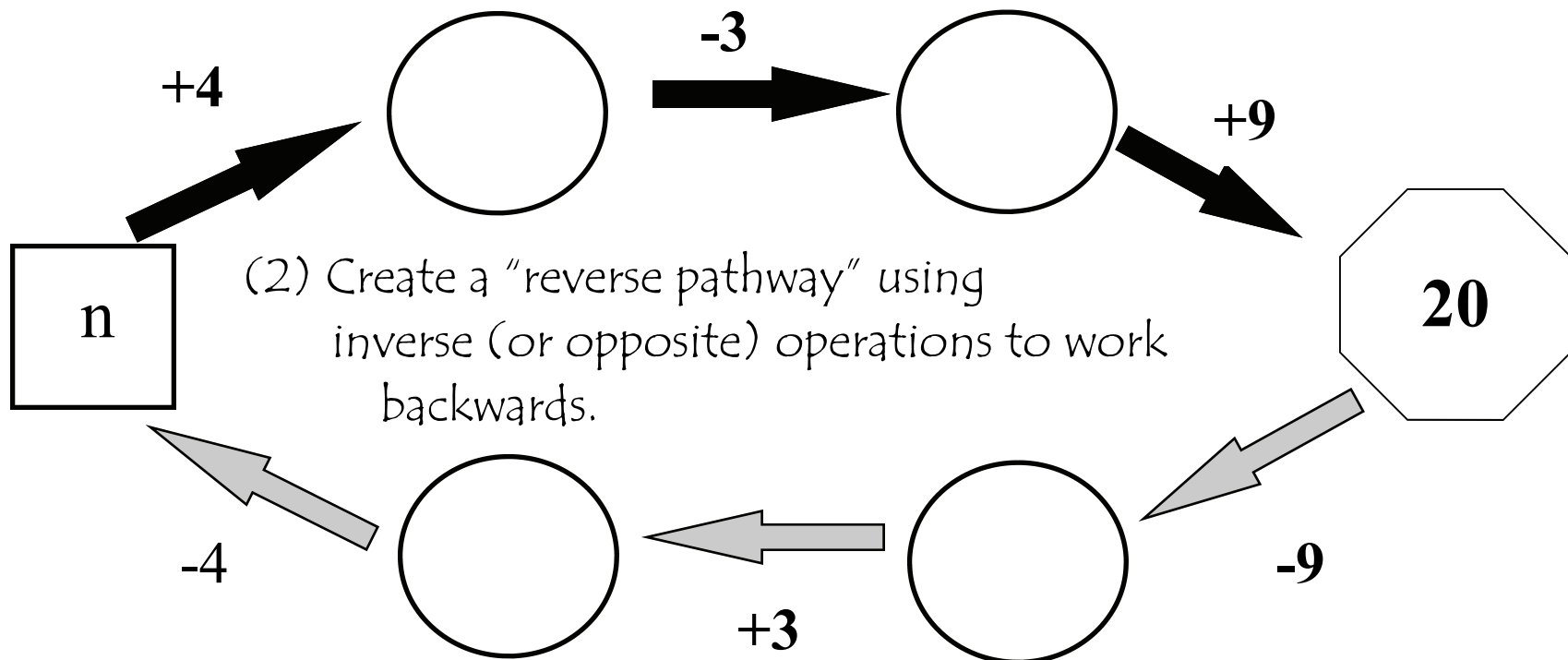


Making Paths— Example

Grade 3

If you add 4 to a number, then subtract 3, then add 9, you get 8.
What's the number?

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



(2) Create a "reverse pathway" using inverse (or opposite) operations to work backwards.

(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 3

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

B. If you add 5 to a number, then subtract 1, you get 12.
What's the number?

C. If you add 8 to a number, then subtract 4, you get 6.
What's the number?

D. If you add 10 to a number, then subtract 5, you get 16.
What's the number?

Making Paths—2

Grade 3

A. If you add 6 to a number, then subtract 1, then add 2, you get 14.
What's the number?

B. If you add 7 to a number, then add 10, then subtract 3, you get 18.
What's the number?

C. If you add 3 to a number, then add 4, then add 5, you get 15.
What's the number?

D. If you add 4 to a number, then subtract 2, then add 9, then subtract 6, you get 12.
What's the number?

Making Paths—3

Grade 3

A. If you add 8 to a number, then subtract 3, then add 5, then subtract 1, you get 10.

What's the number?

B. If you add 4 to a number, then add 6, then subtract 8, you get 24.

What's the number?

C. If you add 6 to a number, then add 5, then add 4, then subtract 3, you get 17.

What's the number?

D. If you add 10 to a number, then subtract 2, then add 9, then subtract 3, you get 20.

What's the number?

Making Paths—4

Grade 3

A. If you add 1 to a number, then subtract 4, then add 8, then subtract 3, you get 15.

What's the number?

B. If you add 10 to a number, then add 4, then subtract 12, you get 9.

What's the number?

C. If you add 1 to a number, then add 3, then add 5, then subtract 7, you get 20.

What's the number?

D. If you add 4 to a number, then subtract 4, then add 7, then subtract 7, you get 20.

What's the number?

Making Paths—5: Create your own problems.

Grade 3

A.

B.

C.

D.

Making Paths—Answers

Grade 3

Making Paths—1

- A. 5
- B. 8
- C. 2
- D. 11

Making Paths—2

- A. 7
- B. 4
- C. 3
- D. 7

Making Paths—3

- A. 1
- B. 22
- C. 5
- D. 6

Making Paths—4

- A. 13
- B. 7
- C. 18
- D. 20