

Pattern Detective

TOP SECRET

Study the numbers in each case. What rule connects them?

Detective tip: the rule must work for every jump, not only the first one.

CASE 1

THE EVIDENCE



CIRCLE THE RULE

- ☒ (A) Add 5
☐ (B) Multiply by 2
☐ (C) Add 10

CASE 2

THE EVIDENCE



CIRCLE THE RULE

- ☐ (A) Subtract 4
☐ (B) Subtract 2
☐ (C) Divide by 2

CASE 3

THE EVIDENCE



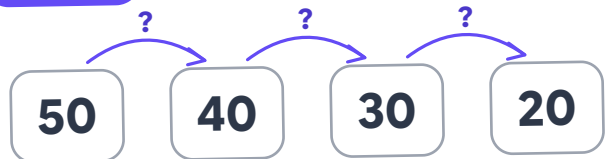
CIRCLE THE OPERATION

- ☒ + ☒ - ☒ × ☒ ÷ Number: _____

Rule: _____

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☐ - ☐ × ☐ ÷ Number: _____

Rule: _____

CASE 5

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

CASE 6

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

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Study the numbers in each case. What rule connects them?

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CASE 1

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CIRCLE THE RULE

- ☐ A Multiply by 2
☐ B Add 4
☐ C Add 8

CASE 2

THE EVIDENCE



CIRCLE THE RULE

- ☐ A Subtract 3
☐ B Subtract 7
☐ C Divide by 3

CASE 3

THE EVIDENCE



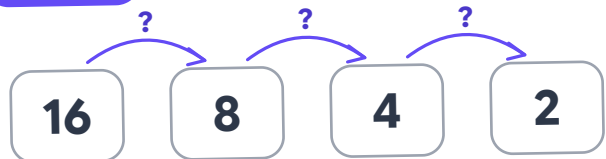
CIRCLE THE OPERATION

- ☐ + ☐ - ☐ × ☐ ÷ Number: _____

Rule: _____

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☐ - ☐ × ☐ ÷ Number: _____

Rule: _____

CASE 5

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

CASE 6

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Rule: _____

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CIRCLE THE RULE

- ☒ (A) Add 8
☐ (B) Multiply by 2
☐ (C) Add 6

CASE 2

THE EVIDENCE



CIRCLE THE RULE

- ☐ (A) Subtract 54
☐ (B) Divide by 3
☐ (C) Divide by 9

CASE 3

THE EVIDENCE



CIRCLE THE OPERATION

- ☒ + ☐ - ☐ × ☐ ÷ Number: _____

Rule: _____

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☐ - ☐ × ☐ ÷ Number: _____

Rule: _____

CASE 5

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

CASE 6

THE EVIDENCE



Rule: _____

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CASE 1

THE EVIDENCE



CIRCLE THE RULE

- ☐ A Multiply by 2
☐ B Add 6
☐ C Add 12

CASE 2

THE EVIDENCE



CIRCLE THE RULE

- ☐ A Divide by 2
☐ B Subtract 32
☐ C Divide by 4

CASE 3

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☐ - ☐ × ☐ ÷

Number: _____

Rule: _____

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☐ - ☐ × ☐ ÷

Number: _____

Rule: _____

CASE 5

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

CASE 6

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

Pattern Detective

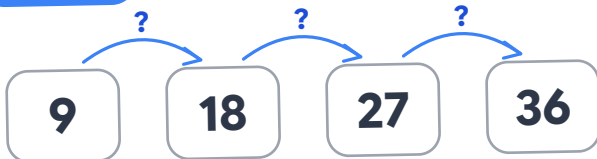
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Study the numbers in each case. What rule connects them?

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CASE 1

THE EVIDENCE



CIRCLE THE RULE

- ☐ A Add 9
☐ B Multiply by 2
☐ C Add 18

CASE 2

THE EVIDENCE



CIRCLE THE RULE

- ☐ A Subtract 36
☐ B Divide by 9
☐ C Divide by 3

CASE 3

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☐ - ☐ × ☐ ÷

Number: _____

Rule: _____

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☐ - ☐ × ☐ ÷

Number: _____

Rule: _____

CASE 5

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

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CIRCLE THE RULE

- ☐ A Add 14
- ☐ B Add 7
- ☐ C Multiply by 2

CASE 2

THE EVIDENCE



CIRCLE THE RULE

- ☐ A Subtract 40
- ☐ B Divide by 4
- ☐ C Divide by 2

CASE 3

THE EVIDENCE



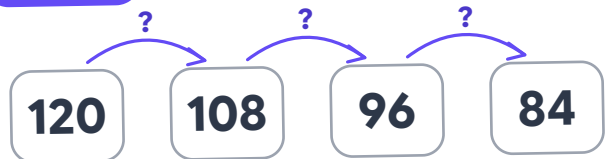
CIRCLE THE OPERATION

- ☐ +
 ☐ -
 ☐ ×
 ☐ ÷
 Number: _____

Rule: _____

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ +
 ☐ -
 ☐ ×
 ☐ ÷
 Number: _____

Rule: _____

CASE 5

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

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Study the numbers in each case. What rule connects them?

Detective tip: the rule must work for every jump, not only the first one.

CASE 1

THE EVIDENCE



CIRCLE THE RULE

- ☐ A Multiply by 2
☒ B Add 125
☐ C Add 250

CASE 2

THE EVIDENCE



CIRCLE THE RULE

- ☐ A Subtract 162
☐ B Divide by 3
☐ C Divide by 9

CASE 3

THE EVIDENCE



CIRCLE THE OPERATION

- ☒ + ☐ - ☐ × ☐ ÷ Number: _____

Rule: _____

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☐ - ☐ × ☐ ÷ Number: _____

Rule: _____

CASE 5

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

CASE 6

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Rule: _____

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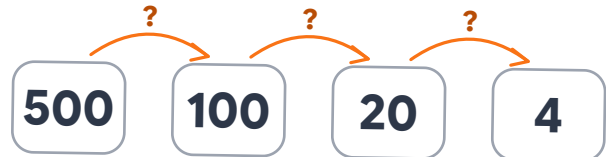


CIRCLE THE RULE

- ☐ A Add 150
- ☐ B Multiply by 2
- ☐ C Add 300

CASE 2

THE EVIDENCE



CIRCLE THE RULE

- ☐ A Subtract 400
- ☐ B Divide by 5
- ☐ C Divide by 10

CASE 3

THE EVIDENCE



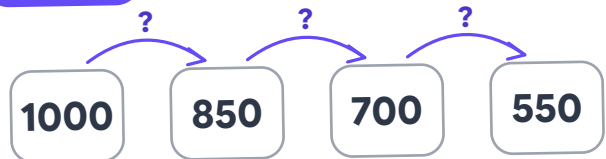
CIRCLE THE OPERATION

- ☐ +
 ☐ -
 ☐ ×
 ☐ ÷
 Number: _____

Rule: _____

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ +
 ☐ -
 ☐ ×
 ☐ ÷
 Number: _____

Rule: _____

CASE 5

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

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CIRCLE THE RULE

- (A) Subtract 4
(B) Subtract 2
(C) Divide by 2

CASE 3

THE EVIDENCE



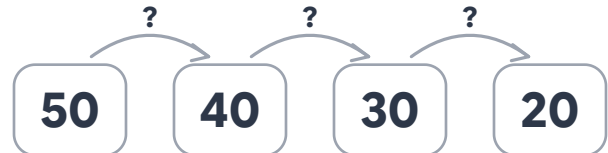
CIRCLE THE OPERATION

- + - × ÷ Number: _____

Rule: _____

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- + - × ÷ Number: _____

Rule: _____

CASE 5

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

CASE 6

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Rule: _____

HOW DO YOU KNOW?

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CIRCLE THE RULE

- (A) Multiply by 2
(B) Add 4
(C) Add 8

CASE 2

THE EVIDENCE



CIRCLE THE RULE

- (A) Subtract 3
(B) Subtract 7
(C) Divide by 3

CASE 3

THE EVIDENCE



CIRCLE THE OPERATION

- (+) (-) (x) (÷) Number: _____

Rule: _____

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- (+) (-) (x) (÷) Number: _____

Rule: _____

CASE 5

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

CASE 6

THE EVIDENCE



Rule: _____

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CIRCLE THE RULE

- (A) Add 8
(B) Multiply by 2
(C) Add 6

CASE 2

THE EVIDENCE



CIRCLE THE RULE

- (A) Subtract 54
(B) Divide by 3
(C) Divide by 9

CASE 3

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☐ - ☐ × ☐ ÷ Number: _____

Rule: _____

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☐ - ☐ × ☐ ÷ Number: _____

Rule: _____

CASE 5

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

CASE 6

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

Pattern Detective

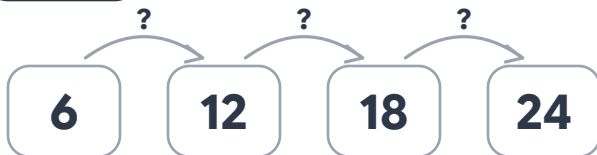
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CASE 1

THE EVIDENCE



CIRCLE THE RULE

- (A) Multiply by 2
(B) Add 6
(C) Add 12

CASE 2

THE EVIDENCE

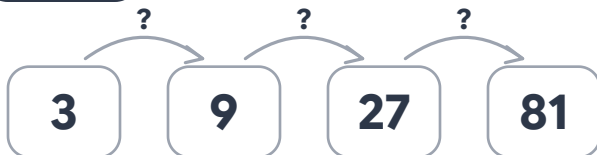


CIRCLE THE RULE

- (A) Divide by 2
(B) Subtract 32
(C) Divide by 4

CASE 3

THE EVIDENCE



CIRCLE THE OPERATION

- (+) (-) (x) (÷) Number: _____

Rule: _____

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- (+) (-) (x) (÷) Number: _____

Rule: _____

CASE 5

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

CASE 6

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

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Study the numbers in each case. What rule connects them?

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THE EVIDENCE



CIRCLE THE RULE

- (A) Add 9
(B) Multiply by 2
(C) Add 18

CASE 2

THE EVIDENCE



CIRCLE THE RULE

- (A) Subtract 36
(B) Divide by 9
(C) Divide by 3

CASE 3

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☐ - ☐ × ☐ ÷ Number: _____

Rule: _____

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☐ - ☐ × ☐ ÷ Number: _____

Rule: _____

CASE 5

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

CASE 6

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Rule: _____

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CIRCLE THE RULE

- (A) Add 14
(B) Add 7
(C) Multiply by 2

CASE 2

THE EVIDENCE



CIRCLE THE RULE

- (A) Subtract 40
(B) Divide by 4
(C) Divide by 2

CASE 3

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☐ - ☐ × ☐ ÷ Number: _____

Rule: _____

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☐ - ☐ × ☐ ÷ Number: _____

Rule: _____

CASE 5

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

CASE 6

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

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CASE 1

THE EVIDENCE



CIRCLE THE RULE

- (A) Multiply by 2
 (B) Add 125
 (C) Add 250

CASE 2

THE EVIDENCE



CIRCLE THE RULE

- (A) Subtract 162
 (B) Divide by 3
 (C) Divide by 9

CASE 3

THE EVIDENCE



CIRCLE THE OPERATION

- (+) (-) (x) (÷) Number: _____

Rule: _____

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- (+) (-) (x) (÷) Number: _____

Rule: _____

CASE 5

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

CASE 6

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

Pattern Detective

Study the numbers in each case. What rule connects them?

 **Detective tip:** the rule must work for every jump, not only the first one.

CASE 1

THE EVIDENCE



CIRCLE THE RULE

- (A) Add 150
 (B) Multiply by 2
 (C) Add 300

CASE 2

THE EVIDENCE



CIRCLE THE RULE

- (A) Subtract 400
 (B) Divide by 5
 (C) Divide by 10

CASE 3

THE EVIDENCE



CIRCLE THE OPERATION

- (+) (-) (x) (÷) Number: _____

Rule: _____

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- (+) (-) (x) (÷) Number: _____

Rule: _____

CASE 5

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

CASE 6

THE EVIDENCE



Rule: _____

HOW DO YOU KNOW?

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Study the numbers in each case. What rule connects them?

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CASE 1

THE EVIDENCE



CIRCLE THE RULE

- ☒ (A) Add 5
☐ (B) Multiply by 2
☐ (C) Add 10

CASE 2

THE EVIDENCE



CIRCLE THE RULE

- ☐ (A) Subtract 4
☒ (B) Subtract 2
☐ (C) Divide by 2

CASE 3

THE EVIDENCE



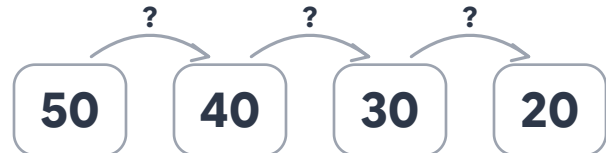
CIRCLE THE OPERATION



Rule: Add 3

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION



Rule: Subtract 10

CASE 5

THE EVIDENCE



Rule: Add 2

HOW DO YOU KNOW?

Each number is 2 more than the one before it.

CASE 6

THE EVIDENCE



Rule: Subtract 5

HOW DO YOU KNOW?

Each number is 5 less than the one before it.

Pattern Detective

Study the numbers in each case. What rule connects them?

 **Detective tip:** the rule must work for every jump, not only the first one.

CASE 1

THE EVIDENCE



CIRCLE THE RULE

- (A) Multiply by 2
 (B) Add 4
 (C) Add 8

CASE 2

THE EVIDENCE



CIRCLE THE RULE

- (A) Subtract 3
 (B) Subtract 7
 (C) Divide by 3

CASE 3

THE EVIDENCE



CIRCLE THE OPERATION

- + - **×** ÷ Number: 2

Rule: Multiply by 2

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- + - **×** **÷** Number: 2

Rule: Divide by 2

CASE 5

THE EVIDENCE



Rule: Add 10

HOW DO YOU KNOW?

Each number is 10 more than the one before it.

CASE 6

THE EVIDENCE



Rule: Subtract 4

HOW DO YOU KNOW?

Each number is 4 less than the one before it.

Pattern Detective

Study the numbers in each case. What rule connects them?

 **Detective tip:** the rule must work for every jump, not only the first one.

CASE 1

THE EVIDENCE



CIRCLE THE RULE

- ☒ (A) Add 8
☐ (B) Multiply by 2
☐ (C) Add 6

CASE 2

THE EVIDENCE



CIRCLE THE RULE

- ☐ (A) Subtract 54
☒ (B) Divide by 3
☐ (C) Divide by 9

CASE 3

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☐ - ☒ × ☐ ÷ Number: 3

Rule: Multiply by 3

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☒ - ☐ × ☐ ÷ Number: 8

Rule: Subtract 8

CASE 5

THE EVIDENCE

Rule: Multiply by 2

HOW DO YOU KNOW?

Each number is double the one before it.

CASE 6

THE EVIDENCE

Rule: Subtract 12

HOW DO YOU KNOW?

Each number is 12 less than the one before it.

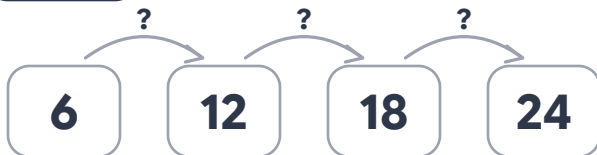
Pattern Detective

Study the numbers in each case. What rule connects them?

 **Detective tip:** the rule must work for every jump, not only the first one.

CASE 1

THE EVIDENCE



CIRCLE THE RULE

- (A) Multiply by 2
 (B) Add 6
 (C) Add 12

CASE 2

THE EVIDENCE

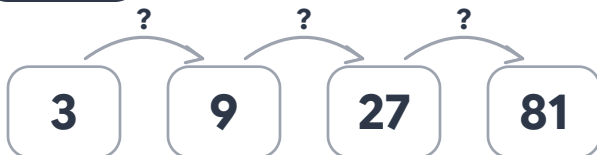


CIRCLE THE RULE

- (A) Divide by 2
 (B) Subtract 32
 (C) Divide by 4

CASE 3

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ +
 ☐ -
 ☒ ×
 ☐ ÷
 Number: 3

Rule: Multiply by 3

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ +
 ☒ -
 ☐ ×
 ☐ ÷
 Number: 9

Rule: Subtract 9

CASE 5

THE EVIDENCE



Rule: Multiply by 2

HOW DO YOU KNOW?

Each number is double the one before it.

CASE 6

THE EVIDENCE



Rule: Subtract 11

HOW DO YOU KNOW?

Each number is 11 less than the one before it.

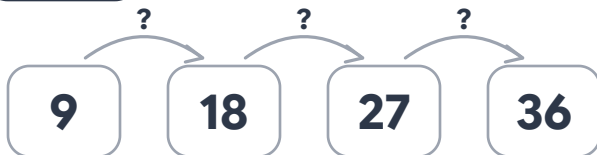
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Study the numbers in each case. What rule connects them?

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CASE 1

THE EVIDENCE



CIRCLE THE RULE

- ☒ (A) Add 9
☐ (B) Multiply by 2
☐ (C) Add 18

CASE 2

THE EVIDENCE



CIRCLE THE RULE

- ☐ (A) Subtract 36
☐ (B) Divide by 9
☒ (C) Divide by 3

CASE 3

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☐ - ☒ × ☐ ÷ Number: 2

Rule: Multiply by 2

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☒ - ☐ × ☐ ÷ Number: 15

Rule: Subtract 15

CASE 5

THE EVIDENCE

Rule: Add 7

HOW DO YOU KNOW?

Each number is 7 more than the one before it.

CASE 6

THE EVIDENCE

Rule: Divide by 2

HOW DO YOU KNOW?

Each number is half of the one before it.

Pattern Detective

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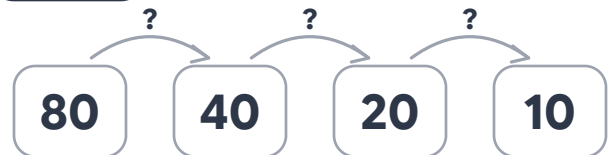


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- ☐ (A) Add 14
☒ (B) Add 7
☐ (C) Multiply by 2

CASE 2

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CIRCLE THE RULE

- ☐ (A) Subtract 40
☐ (B) Divide by 4
☒ (C) Divide by 2

CASE 3

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☐ - ☒ × ☐ ÷ Number: 3

Rule: Multiply by 3

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☒ - ☐ × ☐ ÷ Number: 12

Rule: Subtract 12

CASE 5

THE EVIDENCE

Rule: Add 25

HOW DO YOU KNOW?

Each number is 25 more than the one before it.

CASE 6

THE EVIDENCE

Rule: Multiply by 2

HOW DO YOU KNOW?

Each number is double the one before it.

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CIRCLE THE RULE

- (A) Multiply by 2
 (B) Add 125
 (C) Add 250

CASE 2

THE EVIDENCE



CIRCLE THE RULE

- (A) Subtract 162
 (B) Divide by 3
 (C) Divide by 9

CASE 3

THE EVIDENCE



CIRCLE THE OPERATION

Rule: Multiply by 4

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

Rule: Subtract 125

CASE 5

THE EVIDENCE

Rule: Multiply by 10

HOW DO YOU KNOW?

Each number is 10 times the one before it.

CASE 6

THE EVIDENCE

Rule: Divide by 2

HOW DO YOU KNOW?

Each number is half of the one before it.

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CASE 1

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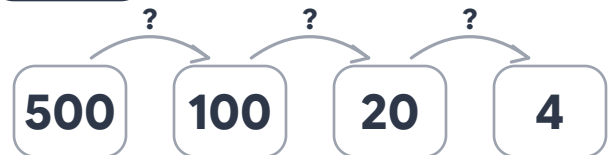


CIRCLE THE RULE

- ☒ (A) Add 150
☐ (B) Multiply by 2
☐ (C) Add 300

CASE 2

THE EVIDENCE



CIRCLE THE RULE

- ☐ (A) Subtract 400
☒ (B) Divide by 5
☐ (C) Divide by 10

CASE 3

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☐ - ☒ × ☐ ÷ Number: 4

Rule: Multiply by 4

CASE 4

THE EVIDENCE



CIRCLE THE OPERATION

- ☐ + ☒ - ☐ × ☐ ÷ Number: 150

Rule: Subtract 150

CASE 5

THE EVIDENCE



Rule: Add 18

HOW DO YOU KNOW?

Each number is 18 more than the one before it.

CASE 6

THE EVIDENCE



Rule: Divide by 2

HOW DO YOU KNOW?

Each number is half of the one before it.