# Topics to review

• Commutative, associative, distributive, and identity property

### Problem 1

Which expression is the same as the expression shown?

- (1)  $a \times b = ?$
- (A) b+a
- (B)  $b \times a$
- (C) a
- (D) none of the above
- (2)  $a \times b + a \times c = ?$
- (A)  $a+b\times c$
- (B) a(b+c)
- (C) (a+b)(a+c)
- (D)  $a \times b + c$
- (3) a+(b+c) = ?
- (A)  $a+b\times c$
- (B) a(b+c)
- (C) (a+b)(a+c)
- (D) (a+b)+c
- (4) a(b+c) = ?
- (A)  $a \times b + a \times c$
- (B) a(b+c)
- (C) (a+b)(a+c)
- (D) (a+b)+c

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35- = 9x3

#### Problem 2

What number goes in the box to make the equation true?

- (A) 4
- (B) 16
- (C) 8
- (D) 13

# Topics to review:

• Multiplying fractions with whole numbers (only need to watch until 4:15)

#### Problem 3

Two-thirds of the chairs were donated. How many chairs were donated?

- (A) 10 chairs
- (B) 5 chairs
- (C) 12 chairs
- (D) 9 chairs



hhhh ← Please pretend hhhhh these are chairs

# Topics to review:

• Finding patterns in numbers

#### Problem 4

Look at the number pattern:

3, 7, 15, 31, 63,...

What is the rule for the pattern?

- (A) Multiply by 3 and then subtract 2 to get the next number in the pattern.
  - (B) Add 4 to get the next number in the pattern.
  - (C) Multiply by 2 and then add 1 to get the next number in the pattern.
  - (D) Add 5 and then subtract 1 to get the next number in the pattern.

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#### Problem 5

The formula 2x + 7y shows the cost of x packs of index cards and y packs of printer paper at Ollie's Office Supply. Alexandra needs to buy 6 packs of index cards and 4 packs of printer paper for her class. What is the total cost?

- (A) \$43
- (B) \$19
- (C) \$50
- (D) \$40

# Topics to review:

- Slope-intercept equation from two points
- Worked example: slope from two points
- How to determine if a point lies on a line or not using the point and the equation

### Problem 6

The graph of a straight line is shown in the coordinate plane. Use the graph to answer the question. The graph of the line continues. Which point is also on the line?

