ABX 0100 - ABE Math Week 6

# Topics to review

• Commutative, associative, distributive, and identity property (1)

# Problem 1 Which expression is the same as the expression shown? (1) $a \times b = ?$ • same letters/variables axb -> multiplication a - b · <u>Same</u> operation/symbols (A) b+aa(b) · order doesn't change value $\mathbb{B}$ b×a $0 \times 6 = 4 \times 3 = 12$ (C) a bxa = 3x4 = 12 (D) none of the above Check: a=4, b=3 (2) $a \times b + a \times c = ?$ $\cap ( b + c )$ a+b=b+9 (A) $a+b\times c$ axb= a , b=1 (B) a(b+c) (C) (a+b)(a+c) axb=a, b=0, a=0 (D) $a \times b + c$ $a \times b = b + a$ , a = 2 = b(3) a+(b+c) = ? (a+b)+C2 x 7 = 2+2 = 4 (a) $a+b\times c$ (B) a(b+c)(C) (a+b)(a+c) = (b+c)+a = (a+c)+b = a+b+c = b+c+a $\bigcirc$ (a+b)+c (4) a(b+c) = ?**a.b.4** $\mathbf{A}\mathbf{a} \times \mathbf{b} + \mathbf{a} \times \mathbf{c}$ (B) a(b+c)(C) (a+b)(a+c)(D) (a+b)+c

1

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## Problem 2

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

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

- 35- = 9×3

- $35 X = 9 \times 3$  35 X = 27 35 27 = 8 = X
- 35-x-27 = 0
- 35-27 = X

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
- hhhhhhhhhh
- 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.

## 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?

