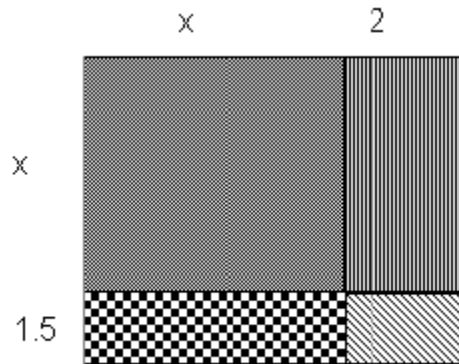


2016 Mathematics Standards of Learning
Algebra Readiness Formative Assessment

1A.2abc

- Write a polynomial product which shows the area of the original rectangle before being divided into 4 smaller rectangles. Then simplify the polynomial product.



- Given $2x^2 + 5x - 12$ and $2x - 3$, find the sum, difference, product and quotient of these polynomials.
- If $x \neq 0, y \neq 0$, and $z \neq 0$, then

$$\frac{36x^6y^5z^{-2}}{12x^{-2}y^5z^2} =$$

- $3x^4$
 - $\frac{3x^8}{z^4}$
 - $3x^4z^{-4}$
 - $3x^8y^{10}z^4$
- $(2a^2b^3 - 10ab + b^2) - (-3a^2b^3 - 20ab - 17b^2)$ is equivalent to –
 - $-a^2b^3 - 30ab - 16b^2$
 - $a^2b^3 + 30ab + 16b^2$
 - $5a^2b^3 - 10ab - 18b^2$
 - $5a^2b^3 + 10ab + 18b^2$

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5. Which of the following is NOT a factor of $4x^2 + 20x + 24$?
- A. 4
 - B. $x+6$
 - C. $x+3$
 - D. $x+2$
6. Factor the expression $8x^2 - 18$
- A. $(2x+9)(4x-2)$
 - B. $(8x-9)(x+2)$
 - C. $2(2x+3)(2x-3)$
 - D. $2(x-9)(4x+1)$

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