

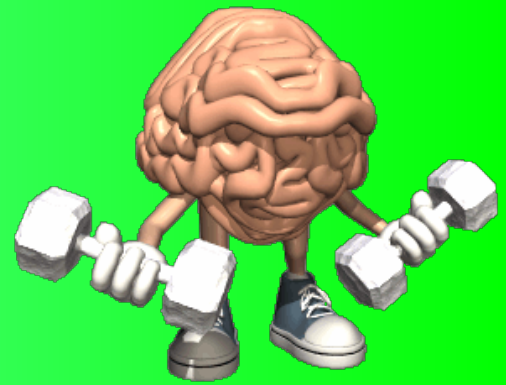
Warm Up



Expand and Simplify

$$(x-3)^3 - (x+2)^2$$

Warm Up



Expand and Simplify

$$(x-3)^3 - (x+2)^2$$

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$$(x-3)^3 - (x+2)^2$$

$$(x-3)(x-3)(x-3)$$

$$(x^2 - 3x - 3x + 9)(x-3)$$

$$(x^2 - 6x + 9)(x-3)$$

$$x^3 - 3x^2 - 6x^2 + 18x + 9x - 27 - x^2 - 4x - 4$$

$$x^3 - 10x^2 + 23x - 31$$

$$-(x+2)(x+2)$$

$$-(x^2 + 2x + 2x + 4)$$

$$-x^2 - 4x - 4$$

Quiz tomorrow on
Oct. 12th

- Prime factorization

Example: Prime factorization of 560



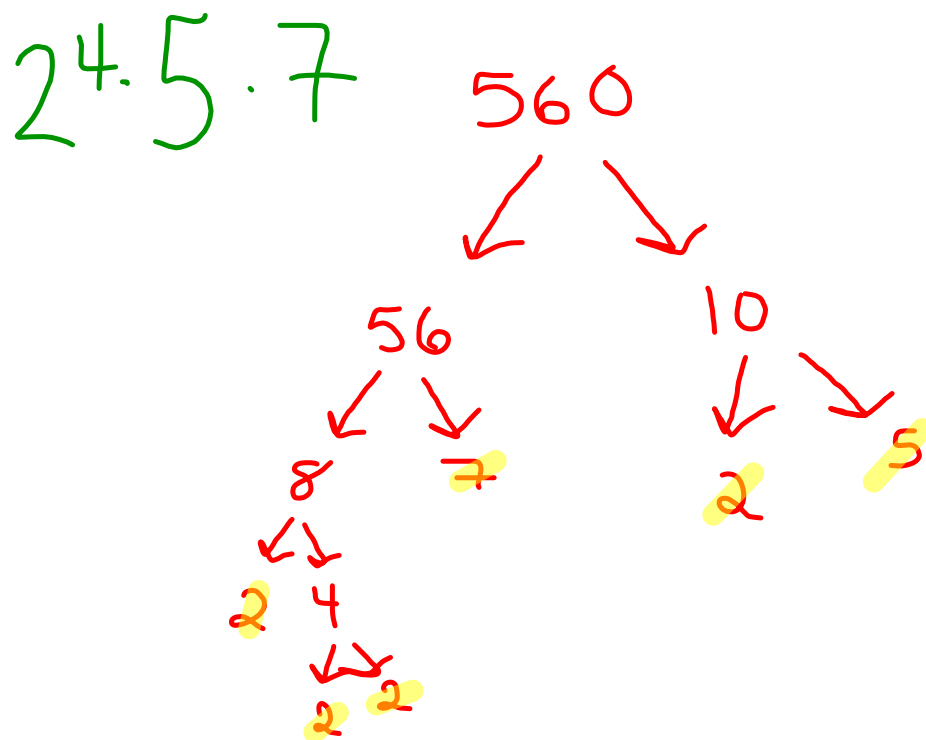
- Greatest Common Factor

Example: 56, 72

Example: $(3xy + 6x^2y^3 - 24x)$

- Multiplying polynomials

Example: $(2x-7)(5x+3)^2$

Example: Prime factorization of 560

$$2^4 \times 7 \times 5$$

Prime factor
2, 7, 5

- Greatest Common Factor

Example: 56, 72

56

1, 56

2, 28

4, 14

7, 8

72

1, 72

2, 36

3, 24

4, 18

6, 12

8, 9

$$\text{GCF} = 8$$

Factor o

Example: $(3xy + 6x^2y^3 - 24x)$

$$3x(y + 2xy^3 - 8)$$

- Multiplying polynomials

Example: $(2x-7)(5x+3)^2$

$$(2x-7)(25x^2+30x+9)$$

$$50x^3 + 60x^2 + 18x - 175x^2 - 210x - 63$$

$$50x^3 - 115x^2 - 192x - 63$$

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Questions 9cd, 15ce, 18c, 21c

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Question 1ace, 2ab, 4ac

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Questions 6(a), 10, 14, 15b, 16

Worksheet on expanding

Quiz Tomorrow