Grab a Factoring Quiz and a bubble sheet

Aug 30-7:04 AM

Factoring Quiz

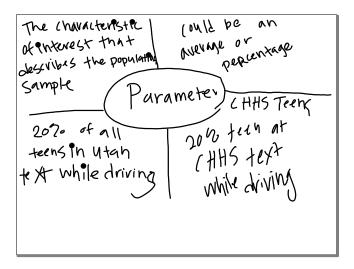Calendar Math

Questions on HW
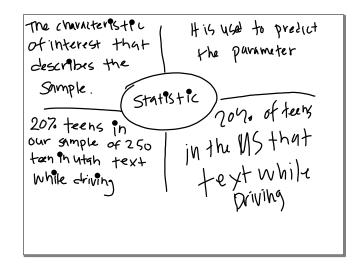
1.3 Sums/Differences of Factoring

HW 1.3 Sum/Diff worksheet

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The characteristic of interest that describes the population Sample

could be an average or percentage

Parameter

CHHS Teens

20% of all teens in Utah text while driving

20% teen at CHHS text while driving

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The characteristic of interest that describes the Sample.

It is used to predict the parameter

Statistic

20% teens in our sample of 250 teen in utah text while driving

20% of teens in the US that text while Driving

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#30 $20u^2 + 40uv + 5v^2$

GCF● 5

$5(4u^2 + 8uv + 3v^2)$
       a   b   c

$5(\frac{4u}{2} + \frac{6}{2}v)(\frac{4u}{2} + \frac{2}{2}v)$

$5(2u+3v)(2u+v)$

6 ✕ 2 = 12
6 · 2 = 8

	2u	v
2u	$4u^2$	$2uv$
3v	$6uv$	$3v^2$

$5(4u^2 + 8uv + 3v^2)$

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#25 $36x^2 - 176xy + 128y^2$

GCF● 4 $4(9x^2 - 44xy + 32y^2)$
                    a   b   c

$4(9x - \frac{36}{9}y)(9x - 8y)$

$4(x - 4y)(9x - 8y)$

288
-36 ✕ -8
-44

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1

27) $24x^2 - 120xy$

GCF: $24x$

$$24x(x - 5y)$$

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#26 $27x^2 - 96xy - 48y^2$

GCF: 3

$$3(9x^2 - 32xy - 16y^2)$$
$$\;\;\;\;\;\; a \;\;\;\;\;\; b \;\;\;\;\;\; c$$

$$3\left(\frac{9x}{9} - \frac{36y}{9}\right)(9x + 4y)$$

$$3(x - 4y)(9x + 4y)$$

$\times$ 144, -36, 4, -32

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Perfect Square: is a number that can be expressed as the product of two equal integers/varibles.

$3 \cdot 3 = 9 \qquad x \cdot x = x^2$

Difference of Squares: $a^2 - b^2$

$$(a + b)(a - b)$$

$x^2 - 49 \qquad a: x \qquad b: 7$

$$(x + 7)(x - 7)$$

	x	-7
x	x^2	$-7x$
7	$7x$	-49

$x^2 - 49$

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Sum of Squares $a^2 + b^2$

$$(a - bi)(a + bi) \qquad \boxed{i^2 = -1}$$

Difference of Cubes $A^3 - B^3$

$$(A - B)(A^2 + AB + B^2)$$

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3) $25m^2 + 36n^2$

$a: 5m \qquad b: 6n$

$$(5m + 6ni)(5m - 6ni)$$

	$5m$	$-6ni$
$5m$	$25m^2$	$-30mni$
$6ni$	$30mni$	$-36n^2i^2$

$25m^2 - 36n^2 i^2$
$25m^2 - 36n^2(-1)$

$25m^2 + 36n^2$

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Sum of Cubes $A^3 + B^3$

$$(A + B)(A^2 - AB + B^2)$$

a) $\dfrac{64p^3 + 27}{A: 4p \quad B: 3}$

$4 \cdot 4 \cdot 4 \cdot 64$

$$(4p + 3)(16p^2 - 12p + 9)$$

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10) $8s^3 + 343t^3$

A: $2s$

B: $7t$ $a^2 - ab + b^2$

$(2s + 7t)(4s^2 - 14st + 49t^2)$

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Difference of Cubes $A^3 - B^3$

$(A - B)(A^2 + AB + B^2)$

8) $\dfrac{8x^3 - 125y^3}{}$

A: (2x)

B: (5y) $(2x - 5y)(4x^2 + 10xy + 25y^2)$

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30) $9k^2 + 36k + 20$

NO GCF   a   b   c

$\left(\dfrac{9k}{3} + \dfrac{30}{3}\right)\left(\dfrac{9k}{3} + \dfrac{6}{3}\right)$

$\boxed{(3k + 10)(3k + 2)}$

$\dfrac{180}{30 \times 6}$

36

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22) $7x^4 + 52x^2 + 21$

a   b   c

$\left(\dfrac{7x^2 + 49}{7}\right)(7x^2 + 3)$

$\boxed{(x^2 + 7)(7x^2 + 3)}$

$\dfrac{147}{3 \times 49}$

52

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28) $3n^3 - 10n^2$

$\boxed{n^2(3n - 10)}$

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