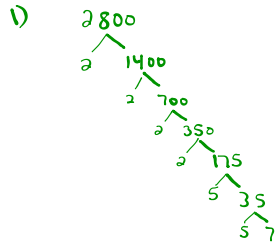
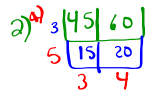


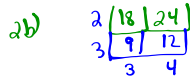
Test Review WS (Test Look-a-like)
NRF 10



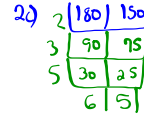
$2800 = 2 \times 2 \times 2 \times 2 \times 5 \times 5 \times 7$
 $= 2^4 \times 5^2 \times 7$



GCF(45,60) = $3 \times 5 = 15$
 LCM(45,60) = $3 \times 5 \times 4 \times 3 = 180$



GCF(18,24) = $2 \times 3 = 6$
 LCM(18,24) = $3 \times 2 \times 3 \times 4 = 72$



GCF(180,150) = $2 \times 3 \times 5 = 30$
 LCM(180,150) = $2 \times 3 \times 5 \times 6 \times 5 = 900$

3) $-48x^4y^3 + 24x^2y^3 - 36x^2y$
 GCF
 $12x^2y^3(-4x^2y^0 + 2x^0y^3 - 3)$

4) $16y^2 + 11y + 8 + 5y^2 - 2y + 7$

$16y^2 + 5y^2 + 11y - 2y + 8 + 7$

$21y^2 + 9y + 15$

GCF

$= 3(7y^2 + 3y + 5)$

Hard trinomial that doesn't factor

mult } add
 $+35$
 1×35
 5×7

5) $k^2 - 16k + 28$
 Simple trinomial
 $(k-2)(k-14)$

mult } add
 $+28$
 -1×-28
 -2×-14
 -4×7

6) $(x \quad)(x + 7) = (x^2 + 5x - \square)$

one factor
STEP 2

add to get middle
+5

$(+7) + (?)$
 (-2)

STEP 3 multiply factors to get last
 $(+7)(-2)$
 $= (x^2 + 5x - 14) - 14$

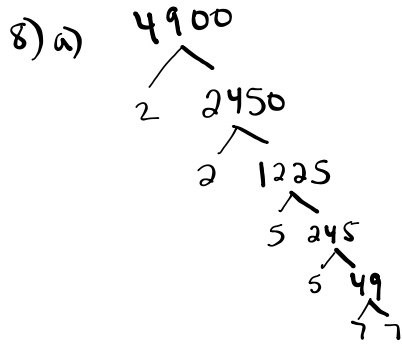
Other factor

7) $64x^2 - \square x + 25$

$(8x)^2$ $(5)^2$
 a b

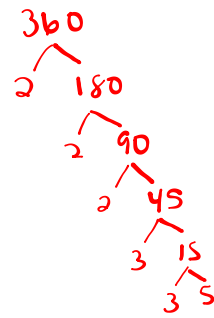
$2ab$
 $2(8x)(5)$
 $\square 80x$

WS Solutions continued



$$4900 = 2^2 \times 5^2 \times 7^2$$

b)



$$360 = 2^3 \times 3^2 \times 5$$

9)

$$15x^5b^7 - 10x^3b^5 + 12x^3 - 7x^5b^7 + 30x^3b^5 + 8x^3$$

Collect like terms (add coefficients)

$$15x^5b^7 - 7x^5b^7 - 10x^3b^5 + 30x^3b^5 + 12x^3 + 8x^3$$

$$8x^5b^7 + 20x^3b^5 + 20x^3$$

Factor out GCF

$$4x^3 (2x^2b^7 + 5b^5 + 5)$$

10)

$$(3x+9)(4x-8)$$

$$12x^2 - 24x + 36x - 72$$

$$12x^2 + 12x - 72$$

10b)

$$(3x+4)(2x-7) + (-2x+4)(5x-3)$$

$$= 12x^2 - 21x + 8x - 28 + -10x^2 + 8x + 20x - 12$$

$$= (12x^2 - 13x - 28) + (-10x^2 + 28x - 12)$$

$$= -2x^2 + 15x - 30$$

Solutions to WS (test-look-at-these)

11a) $18x^5y^3 + 24x^2y^2 - 21x^5y^8 - 9x^2y^4$
 GCF
 $3x^2y^2 (6x^3y + 8x^5 - 7x^3y^6 - 3y^2)$

11b) $9m^2 - 16$ diff. of Squares
 $(3m-4)(3m+4)$

11c) $n^2 - 7n - 18$ simple trinomial
 $(n-9)(n+2)$

11d) $x^2 - 6x + 7$ Simple trinomial
 Does not factor

mult	add
+7	-6
-1x-7	
add	-8

11e) $k^2 + 14k - 32$
 $(k+16)(k-2)$

11f) $3x^2 - 8x + 4$ (Hard trinomial)

mult	add
+12	-8
-1x-12	
-2x-6	
-8x-4	

 $3x^2 - 6x - 2x + 4$
 $-3x(x-2) - 2(x-2)$
 $= (x-2)(3x-2)$

11g) $5x^2 - 17x - 12$ Hard trinomial
 Does Not factor

mult	add
-60	+17
1x-60	
2x-30	
4x-15	
15x-16	
16x-10	

 Hudson SA

11h) $x^2 - 14x + 49$ Simple or perfect square trinomial
 $(x-7)^2$
 No factor

11i) $2x^2 - 22x + 60$
 GCF
 $= 2(x^2 - 11x + 30)$
 Simple trinomial

mult	add
+30	-11
-1x-30	
2x-15	
-3x-10	
-5x-6	

 $= 2(x-5)(x-6)$

11j) $25b^2 - 60b + 36$
 perfect sq trinomial
 $(5b-6)^2$

11k) $12v^2 - 27$
 $= 3(4v^2 - 9)$
 difference of sq.
 $= 3(2v-3)(2v+3)$

11l) $15x^2y^2 - 60xy$
 GCF
 $15xy(xy-4)$

Attachments

Factoring TEST Review Worksheet (A Mix of Simple Hard & Special).pdf

Day 12.5_ Perfect Squares Test Review _HW Solutions to Day 12.notebook

Chapter 3 Test_2017_TEST REVIEW.doc