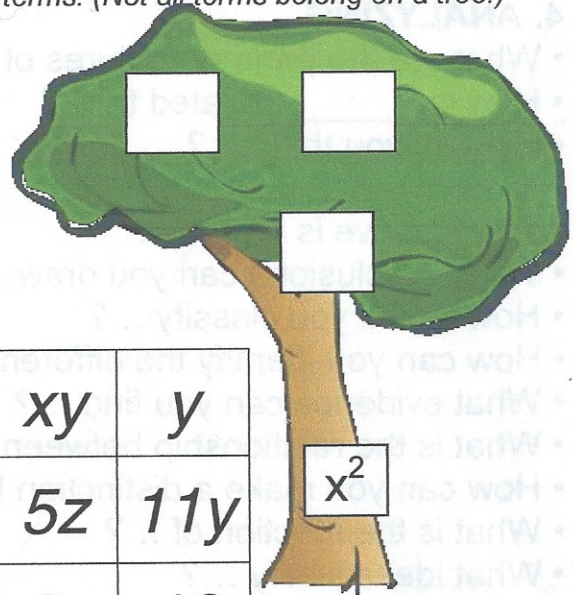
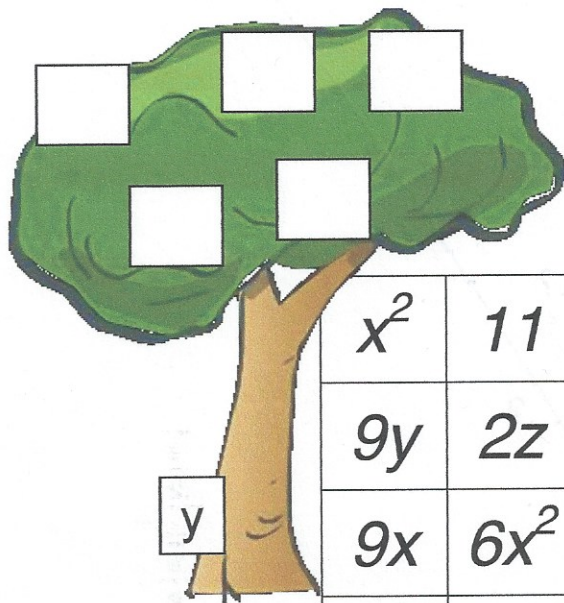


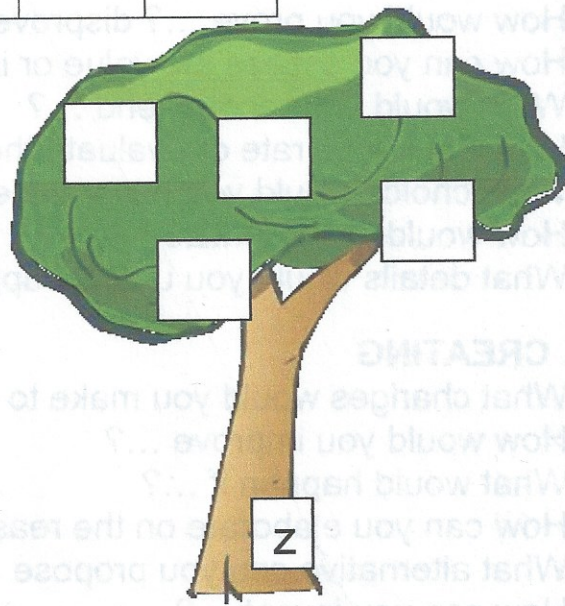
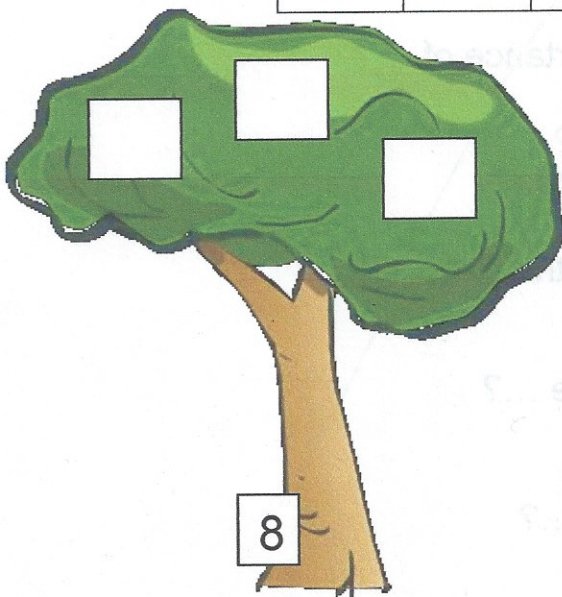
Name _____ Date _____

Enrichment Activity 1 Combining Like Terms

Have you ever heard the phrase "you can't compare apples and oranges?" Place each of the terms below on the proper "tree" that contains like terms. (Not all terms belong on a tree!)



x^2	11	4z	xy	y
9y	2z	$2y^3$	5z	11y
9x	$6x^2$	9y	2z	19
7	$-x^2$	3y	2x	7z



Why Did Everybody Hate The Diaper Thief?

Simplify any expression below and find your answer in the corresponding answer column. Write the letter of the exercise in the box that contains the number of the answer. Keep working and you will discover the answer to the title question.

- | | | | |
|----------------------------|---------------------|----------------------------------|---------------------------|
| S $5x + 2 + 3x$ | 15 $4x + 11$ | I $4y + 3x + 2y + 9x + 4$ | 1 $7x + 11y$ |
| F $3 + 7x + 8$ | 5 $7x + 11$ | E $3 + 7x + 7y + 8x + 9$ | 24 $12y + 11$ |
| E $9 + 6x + 2x$ | 13 $5x + 7$ | H $5x + 8 + 3y + 2x + 8y$ | 8 $12x + 6y + 4$ |
| I $4x + 7 + 4$ | 28 $8x + 9$ | T $6y + 9 + y + 7x + 6$ | 9 $9x + 12y + 1$ |
| O $9x + 3 + 7x + 4$ | 11 $3x + 10$ | X $1 + 8x + 3y + x + 9y$ | 12 $9x + 13y$ |
| T $x + 3x + 6$ | 17 $8x + 2$ | L $x + 7y + 9 + 3y + 6y$ | 16 $15x + 7y + 12$ |
| A $4x + 7 + x$ | 23 $16x + 7$ | P $2y + 7 + y + 9y + 4$ | 3 $x + 16y + 9$ |
| Y $9 + x + 1 + 2x$ | 29 $4x + 6$ | B $5x + 6y + 3x + 7y + x$ | 20 $7x + 7y + 15$ |
-
- | | | | |
|------------------------------|-------------------------|-----------------------------------|--------------------------|
| I $3t + 4v + 5t$ | 2 $8t + 5v + 6$ | N $3z + 6u + 8z + 9 + u$ | 27 $8u + 5z + 15$ |
| A $7t + 6 + 3v + 6v$ | 21 $7t + 18v$ | T $4 + 3z + 7z + 8 + 4z$ | 6 $14z + 12$ |
| S $6v + 5t + 8v + 2t$ | 10 $4t + 8v$ | E $5u + 3z + 9 + 9z + 9u$ | 31 $7u + 16z$ |
| H $3t + 9v + 4t + 9v$ | 26 $7t + 9v + 6$ | C $z + 6 + 4z + 9 + 8u$ | 4 $14u + 12z + 9$ |
| E $t + 5v + 6 + 7t$ | 18 $t + 2v + 15$ | B $9 + 6u + 3z + 8u + z$ | 25 $12u + 11z$ |
| O $8 + 4v + 9t + v$ | 32 $9t + 5v + 8$ | D $2u + 4 + 3z + 6 + 9$ | 22 $7u + 11z + 9$ |
| T $3t + v + t + 7v$ | 19 $8t + 4v$ | L $5u + 7z + 6u + u + 4z$ | 14 $14u + 4z + 9$ |
| W $2v + 8 + t + 7$ | 7 $7t + 14v$ | G $2z + 8z + 3u + 6z + 4u$ | 30 $2u + 3z + 19$ |

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
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Why Does A Sheep Scratch Himself?

SIMPLIFY any expression below. Then EVALUATE for the given value(s) of the variable(s). Find the simplified expression in the answer column. Notice the letter next to it. Write this letter above the value of the expression which you will find at the bottom of the page. Keep working and you will discover the answer to the title question.

- | | | |
|-----------------------------------|-------------------|-------------------------|
| 1 $3x + 7x + 2$ | if $x = 6$ | E $10x + 13$ |
| 2 $4y + 5 + 2y$ | if $y = 3$ | B $4x + 5y + 8$ |
| 3 $9 + x + 4x$ | if $x = 8$ | E $6x + 8y + 12$ |
| 4 $8y + 3 + 4y$ | if $y = 4$ | C $8x + 8y + 12$ |
| 5 $9x + 5 + x + 8$ | if $x = 7$ | E $10x + 2$ |
| 6 $4y + 8y + 6 + 2y$ | if $y = 2$ | F $7x + 11y + 1$ |
| 7 $4x + 2y + 7x + 3$ | if $x = 3, y = 4$ | C $6x + 4y + 15$ |
| 8 $8 + 3x + x + 5y$ | if $x = 8, y = 5$ | E $5x + 9$ |
| 9 $9x + 6y + 5x + 4y$ | if $x = 7, y = 9$ | H $6x + 8y + 7$ |
| 10 $8 + 6x + 4 + 8y$ | if $x = 1, y = 6$ | A $6y + 5$ |
| 11 $3x + 2y + 4 + 9y$ | if $x = 8, y = 4$ | S $12y + 3$ |
| 12 $4x + 5y + 7x + 5 + 2y$ | if $x = 2, y = 3$ | E $11x + 2y + 3$ |
| 13 $9 + 8x + 3y + 3 + 5y$ | if $x = 7, y = 5$ | H $3x + 11y + 4$ |
| 14 $x + 6x + 2y + 1 + 9y$ | if $x = 6, y = 9$ | L $7x + 15y$ |
| 15 $6x + 2y + 5y + 7 + y$ | if $x = 8, y = 1$ | U $14x + 10y$ |
| 16 $8x + 8y + x + 6y + 4x$ | if $x = 1, y = 2$ | E $11x + 7y + 5$ |
| 17 $3x + 8 + 4y + 7 + 3x$ | if $x = 9, y = 6$ | A $14y + 6$ |
| 18 $5x + 5y + 9y + 2x + y$ | if $x = 8, y = 3$ | S $13x + 14y$ |

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