

Name _____

Facts About Dogs

Simplify each expression. Find the code letter for the correct answer. Problems 10-21 must be copied and completed on a separate piece of paper, with all steps as shown in class.

$$1. \quad 7x - (3x + 8) =$$

$$2. \quad 10x + (7x + 5)$$

$$3. \quad 2a + 4c - (a - 2c)$$

$$4. \quad 5a - 2c + 7 - (6a - 3c + 2)$$

$$5. \ a - b - (a + b)$$

$$6. \quad 7a - 3c - 4x - (5a - 8c - 2x)$$

$$7. \quad 2[5 + 6(8 - 3)]$$

$$8. \quad 3[4 - 3(7 - 1)]$$

$$9. [7(8 - 2) + 9] - [13 - 2(11 - 6) + 1]$$

$$10. [13 - 2(7 - 4) - 8] - [5 + 6(12 - 5) - 38]$$

$$11. [5(2x + 3) - 6] + [6 - 3(3x - 1) - 8]$$

$$12. \quad 3[5x - 4] - [-30 - 45x]$$

$$13. \quad 2[15 + 2(9 - 2)] - 3[17 - 4(8 - 5)]$$

$$14. \quad 3\{[9(x - 2) + 7] - 2[4(x + 5) - 36]\}$$

This dog is one of the oldest breeds:

12 7 15 19 17 16 19 9 20 16 18

This is the smallest breed of dog:

— 13 — 19 — 8 — 19 — 20 — 12 — 19 — 20 — 12 —

This dog is one of the largest breeds:

15 10 11 12 4 18 21 16 11

This massive dog used to protect flocks from wolves:

This is one of the fas

— — — — —

This is a black Belga.

This hunting dog is nicknamed "the gr

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14 11 8 3 17 10 17 16 11 10

This dog was bred to tackle badgers:

Code Letter	Answer
A	$60x + 18$
B	$2a + 5c - 2x$
C	43
D	-80
E	$x + 10$
F	70
G	0
H	$4 - 11x - 4y$
I	-42
J	10
K	$4x - 8$
L	$17x + 5$
M	$a + 6c$
N	122
O	47
P	$4x + 8$
Q	$2a + 5c - x$
R	-10
S	-2b
T	$-a + c + 5$
U	-8
V	2b
W	$3x + 63$
X	80
Y	$60x - 18$
Z	42

