Skills Sheet #8

Name_____ #___
Date _____ Pd ___

Directions: Find the value of *x* for each problem along the way. Use your solutions to navigate through the puzzle. **SHOW ALL STEPS** by circling your answers.

Start!

$\dfrac{x-3}{8} = \dfrac{3}{6}$

7

$\dfrac{x}{10} = \dfrac{x+6}{11}$

18

$\dfrac{x-1}{10} = \dfrac{9}{5}$

19

$\dfrac{8}{4} = \dfrac{16}{x-4}$

8

$\dfrac{x}{7} = \dfrac{x+9}{8}$

9   60   65   12   6

$\dfrac{x+8}{x} = \dfrac{12}{9}$

26

$\dfrac{2}{9} = \dfrac{10}{x-4}$

49

$\dfrac{24}{3} = \dfrac{x+7}{9}$

8

$\dfrac{5}{15} = \dfrac{12}{x-3}$

39

$\dfrac{2}{8} = \dfrac{10}{x-3}$

28   8   12   21   43

$\dfrac{12}{x-4} = \dfrac{6}{8}$

25

$\dfrac{9}{3} = \dfrac{x+2}{9}$

16

$\dfrac{12}{x+4} = \dfrac{11}{x}$

28

$\dfrac{x}{4} = \dfrac{x+14}{6}$

6

$\dfrac{10}{x+6} = \dfrac{5}{x}$

20   20   44   12   28

$\dfrac{9}{x+9} = \dfrac{2}{4}$

22

$\dfrac{14}{x} = \dfrac{7}{x-10}$

26

$\dfrac{3}{2} = \dfrac{x+13}{x}$

10

$\dfrac{x+3}{4} = \dfrac{10}{2}$

17

$\dfrac{x}{x-7} = \dfrac{13}{12}$

9   24   16   22   91

$\dfrac{x-9}{2} = \dfrac{6}{4}$

12

$\dfrac{7}{3} = \dfrac{x+12}{x}$

9

$\dfrac{8}{4} = \dfrac{x-5}{5}$

15

$\dfrac{x}{x-2} = \dfrac{11}{10}$

8

$\dfrac{x+4}{7} = \dfrac{6}{3}$

26   36   8   6   10

END!

19

$\dfrac{x-10}{3} = \dfrac{6}{2}$

4

$\dfrac{5}{3} = \dfrac{10}{x+2}$

28

$\dfrac{6}{3} = \dfrac{x-10}{9}$

60

$\dfrac{8}{10} = \dfrac{x-12}{x}$

What Kind of Shot Do You Give a Sick Car?

Use rotations, reflections, and translations to draw a new shape that is congruent to the original. The new shape will surround a letter to use at the bottom.

Grid letters (as positioned): E, R, U, E, O, N, S, I, C, A, F, O, P, H, Y, K, O, J, G, C, L, I, J, T, L, N, B, E, I

1. Reflect the square over the x-axis.

2. Reflect the triangle over the y-axis.

3. Translate the rectangle 1 left, and 4 down.

4. Translate the triangle 6 right, and 8 up.

5. Rotate the square 90° clockwise.

6. Rotate the rectangle 90° counter-clockwise.

7. Reflect the triangle over the x-axis, and then translate it 2 right.

8. Reflect the rectangle over the y-axis, and then translate it 2 left, and 3 up.

9. Rotate the square 180°, and then translate it 1 right, and 2 down.

10. Reflect the triangle over both axes, and then translate it 4 right, and 2 up.

11. Rotate the triangle 90° counter-clockwise, and then translate it 1 left, and 5 down.

12. Translate the rectangle 13 left, and 7 up.

13. Reflect the square over the y-axis, and then translate it 3 left, and 5 down.

14. Rotate the rectangle 90° clockwise, and then translate it 1 left, and 2 up.

7	13	5	11	2	4	10	14	6	12	1	9	8	3