Mathematics

Power Standard 8:9

Post-Formative Test

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_\_\_\_

1. Solve for x: 0.5x-5=15

A. 5

B. 20

C. 40

D. 10

1. Draw a visual model to represent the following problem. Write and solve an equation that could be used to solve the problem.

The third side of an isosceles triangle is three times as long as each of the two equivalent sides. The perimeter of the triangle is 75 cm. Find the measure of all three sides.

1. The sum of two consecutive integers is 9. What are the two integers? Write and solve an equation that can be used to solve this problem.
2. Solve: Show steps.

 -6 + 2x + 3x = 29

1. Solve for x: $\frac{x}{2}$ + 3 = **-**9 Show steps:
2. The student council wants to rent a popcorn machine for their fall party. Popcorn machines can be rented for $20 per hour. In addition to the hourly charge, there is a rental fee of $40. Write and solve an equation showing how long the popcorn machine can be rented if the student council has $160 to spend.