Equation Word Problems Assignment (Introduction, Solving Equations)
See below for the ANSWERS

1. The perimeter of a rectangle is 44 . Its length and width are two consecutive even integers. What is the length of the rectangle?
2. There are 3 consecutive integers. The third integer subtracted from the sum of the first wo integers equals 9 . What is the middle integer?
3. The perimeter of a triangle is 43 cm . The largest side is 4 times the smallest side. The other side is 8 more than twice the smallest side. What is the length of the smallest side?

Answers:


$$
\begin{array}{ccc}
x^{2} & (x+x+1)-(x+2)=9 & \text { middle }=x+1 \\
x+1 & (x+1-x-2=9 \\
x+2 & 2 x+1 & =10+1 \\
& x-1=9 \\
& x=10^{+1} \text { (first integer) }
\end{array}
$$

3. 5


$$
\begin{aligned}
& 43=x+4 x+2 x+8 \\
& 43=7 x+8 \\
& -8
\end{aligned}
$$

$$
\frac{35}{7}=\frac{7 x}{7} \quad x=5
$$

Smallest side

