

-10X1

.3

Make sure name is on your homework and turn into the basket at the front



## Module 0.10

Relationships Between Quantities & Expressions

Name:

How would you define perimeter?

How would you calculate the perimeter of a square?

Iding all sides

- Add Y sides
- 1. A rectangle has a length of 30 cm and height of 53 mm. What is the perimeter of this rectangle in centimeters?



5. A rectangle has a length of 8.2 cm and a height of 42 mm. What is the area of the square in square millimeters?

82mm 42mm



- A rectangle has an area of 12m<sup>2</sup> and a length of 400 cm. What is the width of the rectangle? a. Solution b. 30 cm c. 300 cm d. 3000 cm left 2  $1 \cdot w = Area$   $\frac{1}{4} \cdot w = \frac{12}{4} \quad w = 3m$   $\frac{1}{4} \frac{12m^2}{4} \frac{400 \text{ cm}}{4m}$   $12m^2$  $\frac{1}{4} \frac{12m^2}{4m} = \frac{12}{4m}$
- 10. The length of a football field is 100 yards. Which of the following would be equivalent (the same) to the length of a football field?

a. 300 feet  
b. 100 meters c. 9,144 cm<sup>2</sup>  
d. 914.4 cm e. 10,000 cm  

$$100 \text{ yds}$$
,  $\frac{3f_{+}}{1\text{ yd}} = 300 \text{ ft}$   
 $100 \text{ cm} = 1\text{ m}$   
 $100 \text{ cm} = 1\text{ ft}$   
 $300 \text{ ft}$ ,  $\frac{12}{10}$ ,  $\frac{2.54 \text{ cm}}{12 \text{ in}} = 1\text{ ft}$   
 $300 \text{ ft}$ ,  $\frac{12}{10}$ ,  $\frac{2.54 \text{ cm}}{100 \text{ cm}} = 9144 \text{ cm}$   
 $100 \text{ cm} = 1\text{ ft}$   
 $100 \text{ cm} = 1000 \text{ cm}$   
 $100 \text{ cm} = 1000 \text{$