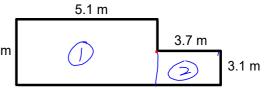
## 5.5 Applications of Perimeter and Area

Ex. 1: Ryan is replacing the flooring in his combined living room/dining room, as shown in the diagram.



a) Find the total area of the floor.

b) Flooring comes in packages of 2 m<sup>2</sup>. How many packages are needed?

# of packages 
$$\frac{34.42 \,\text{m}^2}{2 \,\text{m}^2}$$
 > o Buy 18 = 17.21

c) One package of flooring costs \$49.95. How much will flooring cost? (Include 13% HST). 0.13

= 1015.99 d) Find the perimeter of the combined rooms.

$$P = 4.5 + 5.1 + 1.4 + 3.7 + 3.1 + 8.8$$

$$= 26.6 \text{ m}$$

$$= 26.6 \text{ m}$$

$$= 26.8 \text{ m}$$

$$= 3.7 \text{ m}$$

$$= 3.7 \text{ m}$$

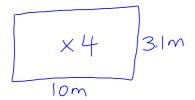
$$= 3.8 \text{ m}$$

e) Baseboard molding for the edge of the floor comes in 3 m lengths. How many 3-m lengths will be needed?

#of baseboards = 
$$\frac{26.6}{3}$$
 . Buy 9  $= 8.87$ 

Ex. 2: Dorotea is wallpapering her bedroom.	Each roll of wallpaper covers 12 m <sup>2</sup> .
Her room is square, and each wall is 10	m long and 3.1 m high.

a) How many rolls of wallpaper must she buy?



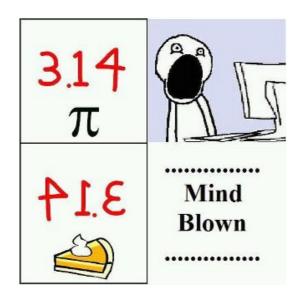
## Homework page 20 #3,7

b) Each roll of wallpaper costs \$19.95. What would be the cost for this wallpaper, including 13% HST?

c) Why might the number of rolls needed be more than your answer in a)?

## <u>Homework</u>

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