# 7th Grade 20 Day Homework Day 18

1) A blueprint shows that a house's length is 100 cm and the width is 80 cm. If the actual house length is 40 meters, what is the actual width?

2) A jar has 5 red marbles and 10 blue ones. If you randomly pick a marble without replacing it and then selects another, what is the fractional probability of getting two red?

3) Jaime has $114.56 in her savings account and her bank just raised the interest paid on her savings account by $\frac{1}{2}$ % . If her old rate was .5%, what is her new rate as a decimal?

4) Javier saw a sales sign which indicated that he could choose any three t-shirts for $14.50. The three that he selected had individual price tags of $4.99, $7.99, and $6.99 which made him realize that he had saved some money through the sale. How much money did he save?

5) Rebecca gets a part time job in order to pay for her cheerleading uniform. Her employer tells her that she will be earning $7.25 per hour and they promise her at least three four- hour work days per week. What is the minimum amount of money she will gross in eight weeks?

6) Last year a ticket to a movie cost $10.00. This year, the price increased to $12.00. By what percent did the price increase?

7) Hannah was looking at a scale drawing of the house she plans to build. The drawing had a scale of 1 inch = 5.4 feet. The width of her new dining room was 4 inches. How wide is her actual dining room going to be?

8) Ms. Smith needs 2 1/5 pounds of corn mesa in order to make tamales. When she went to the grocery store, she found a package of 1 3/8 pounds. What fraction of a pound does she still need?

9) The table below shows the price, in dollars, for the number of candy bouquets indicated.

| Number of Candy Bouquets | 3 | 6 | 9 | 12 | 15 |
|---|---|---|---|---|---|
| Price (Dollars) | 9 | 18 | 27 | 36 | 45 |

Are the prices proportional?

What is the constant of proportionality?

How much will 20 bouquets cost?

10) The model represents the equation 5x + 1 = 4y + 3


Which equation can you use to find the value of x?

A. x = 4y + 3

C. x = 9y + 2

B. x = $\frac{y + 2}{4}$

D. x = $\frac{4y + 2}{5}$