Dimensional Analysis WS Solve uSING DIMENSIONAL ANALYSIS LINE METHOD. Fill in any missing numbers, units or answers.

1) Convert 32.7 ft into in

| 32.7 ft | 12 in |
| :---: | :---: |
|  | 1 ft |$=$

$=$
in
2) Convert 20.1 cm to in

| cm | 1 in |
| :--- | :--- |
|  | cm |$=$

3) My cat, Harley, weighs 8.7 lbs . How much does she weigh in kilograms?

|  | g | kg |
| :--- | :--- | :--- |
|  | 1 lb | g |

kg
4) Convert 8.4 Kg into pounds

|  | $\mathrm{lb}=$ |
| :--- | :--- | :--- |
| kg |  |

5) Convert 3100 in to mi ( $\mathbf{( 0 . 0 4 9 )}$

6) Convert 14 weeks into seconds


## Complete the rest of the problems on the binder paper of your notebook.

7) Convert 5.93 yards into mm (Answer: 5422.4)
8) You're throwing a pizza party for 15 people. Each person will eat 4 slices. You call up the pizza place and find that each pizza will be cut into 12 slices, and each pizza will cost you $\$ 14.78$. How much is the pizza going to cost you? You only have $\$ 70$. Will you have enough money? (Answer: 73.90, no)
9) The bedroom of a house is 1,200 cubic meters. We know that there are $3.4 \times 10^{9}$ particles of dust per cubic meter. How many particles of dust are present in the bedroom of our house? Eww!
10) Find out the weight of 6 billion $(6,000,000,000)$ dust particles in pounds, if one dust particle has a mass of $7.53 \times 10^{-10} \mathrm{~g}$.

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