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 | = in |
|  | 1 ft |  |

1. Convert 20.1 cm to in

|  |  |  |
| --- | --- | --- |
| cm | 1 in | = in |
|  | cm |  |

1. My cat, Harley, weighs 8.7 lbs. How much does she weigh in kilograms? **(3.95)**

|  |  |  |  |
| --- | --- | --- | --- |
|  | g | kg | = kg |
|  | 1 lb | g |  |

1. Convert 8.4 Kg into pounds

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | lb | = |
|  | kg |  |  |

1. Convert 3100 in to mi **(0.049)**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | = |
|  |  |  |  |

1. Convert 14 weeks into seconds

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | = |
|  |  |  |  |  |  |

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

1. Convert 5.93 yards into mm **(Answer: 5422.4)**
2. 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)**
3. The bedroom of a house is 1,200 cubic meters. We know that there are 3.4 x 109 particles of dust per cubic meter. How many particles of dust are present in the bedroom of our house? Eww!
4. 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 x 10-10 g.

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| --- | --- | --- | --- |
|  |  |  | = |
|  |  |  |  |

1. Convert 14 weeks into seconds

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | = |
|  |  |  |  |  |  |

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