**Dimensional Analysis WS**

**Directions:** Solve USING DIMENSIONAL ANALYSIS (line method). Even if you feel you can solve them a different way, you need to use dimensional analysis because that is the technique we are learning/ practicing. Some answers are in bold.

1. Convert 32.7 in into ft **(2.73)**
2. Convert 20.1 cm to in
3. My cat, Harley, weighs 8.7 lbs. How much does she weigh in kilograms? **(3.95)**
4. Convert 8.4 Kg into pounds
5. Convert 3100 in to mi **(0.049)**
6. Convert 14 weeks into seconds
7. Convert 5.93 yards into mm **(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? **(73.90, no)**
9. 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!
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 x 10-10 g.

**Dimensional Analysis WS**

**Directions:** Solve USING DIMENSIONAL ANALYSIS (line method). Even if you feel you can solve them a different way, you need to use dimensional analysis because that is the technique we are learning/ practicing. Some answers are in bold.

1. Convert 32.7 in into ft **(2.73)**
2. Convert 20.1 cm to in
3. My cat, Harley, weighs 8.7 lbs. How much does she weigh in kilograms? **(3.95)**
4. Convert 8.4 Kg into pounds
5. Convert 3100 in to mi **(0.049)**
6. Convert 14 weeks into seconds
7. Convert 5.93 yards into mm **(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? **(73.90, no)**
9. 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!
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 x 10-10 g.

**Dimensional Analysis WS**

**Directions:** Solve USING DIMENSIONAL ANALYSIS (line method). Even if you feel you can solve them a different way, you need to use dimensional analysis because that is the technique we are learning/ practicing. Some answers are in bold.

1. Convert 32.7 in into ft **(2.73)**
2. Convert 20.1 cm to in
3. My cat, Harley, weighs 8.7 lbs. How much does she weigh in kilograms? **(3.95)**
4. Convert 8.4 Kg into pounds
5. Convert 3100 in to mi **(0.049)**
6. Convert 14 weeks into seconds
7. Convert 5.93 yards into mm **(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? **(73.90, no)**
9. 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!
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 x 10-10 g.

**Dimensional Analysis WS**

**Directions:** Solve USING DIMENSIONAL ANALYSIS (line method). Even if you feel you can solve them a different way, you need to use dimensional analysis because that is the technique we are learning/ practicing. Some answers are in bold.

1. Convert 32.7 in into ft **(2.73)**
2. Convert 20.1 cm to in
3. My cat, Harley, weighs 8.7 lbs. How much does she weigh in kilograms? **(3.95)**
4. Convert 8.4 Kg into pounds
5. Convert 3100 in to mi **(0.049)**
6. Convert 14 weeks into seconds
7. Convert 5.93 yards into mm **(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? **(73.90, no)**
9. 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!
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 x 10-10 g.