Name: _____ Date: _____

Converting Metric Units With Decimals

Grade 5 | Converting metric length, mass and capacity units, including decimals | Version 1 of 10

1 km = 1,000 m | 1 m = 100 cm = 1,000 mm | 1 cm = 10 mm | 1 kg = 1,000 g | 1 L = 1,000 mL. To convert to a smaller unit, multiply. To convert to a larger unit, divide.

Part A: Convert to the smaller unit.

1. 4.9 kilograms = _____ grams
2. 8.8 liters = _____ milliliters
3. 1.3 kilometers = _____ meters
4. 2.6 meters = _____ centimeters
5. 0.2 centimeters = _____ millimeters
6. 2.1 kilograms = _____ grams
7. 7.1 centimeters = _____ millimeters
8. 9.1 kilometers = _____ meters

Part B: Convert to the larger unit. Write your answer as a decimal.

9. 7,117 meters = _____ kilometers
10. 8,279 millimeters = _____ meters
11. 3,552 grams = _____ kilograms
12. 306 centimeters = _____ meters
13. 899 centimeters = _____ meters
14. 10,500 millimeters = _____ meters
15. 136 millimeters = _____ centimeters
16. 5,644 grams = _____ kilograms

Name: _____ Date: _____

Converting Metric Units With Decimals

Grade 5 | Converting metric length, mass and capacity units, including decimals | Version 2 of 10

1 km = 1,000 m | 1 m = 100 cm = 1,000 mm | 1 cm = 10 mm | 1 kg = 1,000 g | 1 L = 1,000 mL. To convert to a smaller unit, multiply. To convert to a larger unit, divide.

Part A: Convert to the smaller unit.

1. 0.07 kilograms = _____ grams
2. 9.1 meters = _____ centimeters
3. 3.3 centimeters = _____ millimeters
4. 8.2 meters = _____ millimeters
5. 5.21 kilometers = _____ meters
6. 8.68 kilometers = _____ meters
7. 9.6 centimeters = _____ millimeters
8. 5.6 meters = _____ centimeters

Part B: Convert to the larger unit. Write your answer as a decimal.

9. 1,967 centimeters = _____ meters
10. 14,117 meters = _____ kilometers
11. 3,330 meters = _____ kilometers
12. 15,598 millimeters = _____ meters
13. 5,309 millimeters = _____ meters
14. 12,023 millimeters = _____ meters
15. 48 millimeters = _____ centimeters
16. 18,415 meters = _____ kilometers

Name: _____ Date: _____

Converting Metric Units With Decimals

Grade 5 | Converting metric length, mass and capacity units, including decimals | Version 3 of 10

1 km = 1,000 m | 1 m = 100 cm = 1,000 mm | 1 cm = 10 mm | 1 kg = 1,000 g | 1 L = 1,000 mL. To convert to a smaller unit, multiply. To convert to a larger unit, divide.

Part A: Convert to the smaller unit.

1. 3.3 kilograms = _____ grams
2. 6.6 centimeters = _____ millimeters
3. 3.7 kilometers = _____ meters
4. 5.7 kilograms = _____ grams
5. 8.55 meters = _____ centimeters
6. 5.8 meters = _____ millimeters
7. 1.8 centimeters = _____ millimeters
8. 0.43 meters = _____ millimeters

Part B: Convert to the larger unit. Write your answer as a decimal.

9. 16,890 millimeters = _____ meters
10. 15,846 meters = _____ kilometers
11. 1,682 centimeters = _____ meters
12. 6,226 grams = _____ kilograms
13. 14,491 milliliters = _____ liters
14. 122 centimeters = _____ meters
15. 17,808 grams = _____ kilograms
16. 6,463 millimeters = _____ meters

Name: _____ Date: _____

Converting Metric Units With Decimals

Grade 5 | Converting metric length, mass and capacity units, including decimals | Version 4 of 10

1 km = 1,000 m | 1 m = 100 cm = 1,000 mm | 1 cm = 10 mm | 1 kg = 1,000 g | 1 L = 1,000 mL. To convert to a smaller unit, multiply. To convert to a larger unit, divide.

Part A: Convert to the smaller unit.

1. 9.11 kilograms = _____ grams
2. 9.4 meters = _____ millimeters
3. 1.77 kilometers = _____ meters
4. 4.8 centimeters = _____ millimeters
5. 0.03 meters = _____ millimeters
6. 4.14 meters = _____ millimeters
7. 9.93 meters = _____ centimeters
8. 6.1 liters = _____ milliliters

Part B: Convert to the larger unit. Write your answer as a decimal.

9. 1,181 centimeters = _____ meters
10. 1,062 centimeters = _____ meters
11. 1,955 centimeters = _____ meters
12. 1,620 centimeters = _____ meters
13. 18,661 grams = _____ kilograms
14. 2,314 milliliters = _____ liters
15. 3,726 milliliters = _____ liters
16. 1,733 centimeters = _____ meters

Name: _____ Date: _____

Converting Metric Units With Decimals

Grade 5 | Converting metric length, mass and capacity units, including decimals | Version 5 of 10

1 km = 1,000 m | 1 m = 100 cm = 1,000 mm | 1 cm = 10 mm | 1 kg = 1,000 g | 1 L = 1,000 mL. To convert to a smaller unit, multiply. To convert to a larger unit, divide.

Part A: Convert to the smaller unit.

1. 0.23 kilometers = _____ meters
2. 5.14 meters = _____ millimeters
3. 9.4 liters = _____ milliliters
4. 2.36 meters = _____ centimeters
5. 8.43 meters = _____ centimeters
6. 5.5 kilometers = _____ meters
7. 5.1 meters = _____ centimeters
8. 3.88 kilometers = _____ meters

Part B: Convert to the larger unit. Write your answer as a decimal.

9. 4,476 millimeters = _____ meters
10. 17,636 grams = _____ kilograms
11. 5,668 milliliters = _____ liters
12. 2,059 millimeters = _____ meters
13. 5,233 milliliters = _____ liters
14. 193 millimeters = _____ centimeters
15. 15,842 meters = _____ kilometers
16. 98 millimeters = _____ centimeters

Name: _____ Date: _____

Converting Metric Units With Decimals

Grade 5 | Converting metric length, mass and capacity units, including decimals | Version 6 of 10

1 km = 1,000 m | 1 m = 100 cm = 1,000 mm | 1 cm = 10 mm | 1 kg = 1,000 g | 1 L = 1,000 mL. To convert to a smaller unit, multiply. To convert to a larger unit, divide.

Part A: Convert to the smaller unit.

1. 5.1 meters = _____ millimeters
2. 8.06 liters = _____ milliliters
3. 0.6 centimeters = _____ millimeters
4. 5.97 kilometers = _____ meters
5. 2.73 kilograms = _____ grams
6. 8.3 centimeters = _____ millimeters
7. 3.4 kilometers = _____ meters
8. 2.1 meters = _____ centimeters

Part B: Convert to the larger unit. Write your answer as a decimal.

9. 11,827 grams = _____ kilograms
10. 5,835 milliliters = _____ liters
11. 14,449 meters = _____ kilometers
12. 17,379 millimeters = _____ meters
13. 153 millimeters = _____ centimeters
14. 129 millimeters = _____ centimeters
15. 498 meters = _____ kilometers
16. 916 meters = _____ kilometers

Name: _____ Date: _____

Converting Metric Units With Decimals

Grade 5 | Converting metric length, mass and capacity units, including decimals | Version 7 of 10

1 km = 1,000 m | 1 m = 100 cm = 1,000 mm | 1 cm = 10 mm | 1 kg = 1,000 g | 1 L = 1,000 mL. To convert to a smaller unit, multiply. To convert to a larger unit, divide.

Part A: Convert to the smaller unit.

1. 4.1 kilometers = _____ meters
2. 3.79 kilometers = _____ meters
3. 0.1 kilometers = _____ meters
4. 0.4 kilometers = _____ meters
5. 4.4 kilometers = _____ meters
6. 4.31 kilograms = _____ grams
7. 9.56 meters = _____ centimeters
8. 8.13 kilograms = _____ grams

Part B: Convert to the larger unit. Write your answer as a decimal.

9. 14,982 grams = _____ kilograms
10. 4,136 milliliters = _____ liters
11. 2,319 milliliters = _____ liters
12. 1,965 centimeters = _____ meters
13. 1,537 centimeters = _____ meters
14. 6,503 milliliters = _____ liters
15. 17,567 meters = _____ kilometers
16. 79 millimeters = _____ centimeters

Name: _____ Date: _____

Converting Metric Units With Decimals

Grade 5 | Converting metric length, mass and capacity units, including decimals | Version 8 of 10

1 km = 1,000 m | 1 m = 100 cm = 1,000 mm | 1 cm = 10 mm | 1 kg = 1,000 g | 1 L = 1,000 mL. To convert to a smaller unit, multiply. To convert to a larger unit, divide.

Part A: Convert to the smaller unit.

1. 9.91 kilometers = _____ meters
2. 3.9 centimeters = _____ millimeters
3. 2.17 kilograms = _____ grams
4. 2.9 meters = _____ centimeters
5. 5.6 centimeters = _____ millimeters
6. 0.6 kilometers = _____ meters
7. 6.5 meters = _____ centimeters
8. 7.3 kilograms = _____ grams

Part B: Convert to the larger unit. Write your answer as a decimal.

9. 13,402 milliliters = _____ liters
10. 1,727 centimeters = _____ meters
11. 159 millimeters = _____ centimeters
12. 12,698 grams = _____ kilograms
13. 19,788 milliliters = _____ liters
14. 14,097 milliliters = _____ liters
15. 16,897 meters = _____ kilometers
16. 8,916 milliliters = _____ liters

Name: _____ Date: _____

Converting Metric Units With Decimals

Grade 5 | Converting metric length, mass and capacity units, including decimals | Version 9 of 10

1 km = 1,000 m | 1 m = 100 cm = 1,000 mm | 1 cm = 10 mm | 1 kg = 1,000 g | 1 L = 1,000 mL. To convert to a smaller unit, multiply. To convert to a larger unit, divide.

Part A: Convert to the smaller unit.

1. 2.35 liters = _____ milliliters
2. 3.44 meters = _____ millimeters
3. 7.2 meters = _____ centimeters
4. 9.24 meters = _____ centimeters
5. 5.7 liters = _____ milliliters
6. 3.4 kilograms = _____ grams
7. 2.24 liters = _____ milliliters
8. 0.4 meters = _____ millimeters

Part B: Convert to the larger unit. Write your answer as a decimal.

9. 15,213 milliliters = _____ liters
10. 25 millimeters = _____ centimeters
11. 1,037 centimeters = _____ meters
12. 467 centimeters = _____ meters
13. 154 millimeters = _____ centimeters
14. 1,966 milliliters = _____ liters
15. 9,859 milliliters = _____ liters
16. 3,418 meters = _____ kilometers

Name: _____ Date: _____

Converting Metric Units With Decimals

Grade 5 | Converting metric length, mass and capacity units, including decimals | Version 10 of 10

1 km = 1,000 m | 1 m = 100 cm = 1,000 mm | 1 cm = 10 mm | 1 kg = 1,000 g | 1 L = 1,000 mL. To convert to a smaller unit, multiply. To convert to a larger unit, divide.

Part A: Convert to the smaller unit.

1. 9.98 meters = _____ centimeters
2. 0.5 centimeters = _____ millimeters
3. 7.8 meters = _____ centimeters
4. 1.9 centimeters = _____ millimeters
5. 8.71 kilometers = _____ meters
6. 9.82 kilometers = _____ meters
7. 3.95 kilometers = _____ meters
8. 4.73 meters = _____ centimeters

Part B: Convert to the larger unit. Write your answer as a decimal.

9. 3,909 grams = _____ kilograms
10. 15,211 millimeters = _____ meters
11. 11,807 meters = _____ kilometers
12. 17,010 grams = _____ kilograms
13. 105 millimeters = _____ centimeters
14. 272 grams = _____ kilograms
15. 18,597 grams = _____ kilograms
16. 109 millimeters = _____ centimeters