

Fundamental Math 10033 Chapter 3 Supplemental Problems

SECTION 3.1

Conversion Factors

Make the following conversions: (linear)

1. $4\frac{1}{2}$ feet to inches.
2. 10 feet to yards.
3. 83 millimeters to centimeters.
4. 2 miles to yards.
5. 1 mile to kilometers.
6. 1 centimeter to inches.
7. 950 centimeters to kilometers.
8. 300 inches to yards.
9. $\frac{1}{6}$ kilometer to feet.
10. 2000 meters to miles.

Make the following conversions: (time)

11. 6000 seconds to hours.
12. $2\frac{1}{2}$ days to minutes.
13. 5,400 milliseconds to minutes.
14. 60,000 seconds to hours.

Make the following conversions: (weight)

15. 40 ounces to pounds.
16. 100 ounces to kilograms.
17. 50 grams to ounces.
18. 0.65 ton to pounds.

Make the following conversions: (square)

19. 36 square inches to square feet.
20. 7 square kilometers to square meters.
21. 0.15 square meter to square millimeters.
22. 124 square inches to square yards.
23. 20 square feet to square inches.
24. 2 square miles to square kilometers.
25. 5 square centimeters to square inches.
26. 16 square feet to square yards.
27. 37,500 square millimeters to square meters.
28. $5\frac{1}{2}$ square meters to square centimeters.

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Make the following conversions: (cubic)

29. 90 cubic feet to cubic yards.
30. 54,000 cubic centimeters to cubic meters.
31. 36,000 cubic inches to cubic yards.
32. 8 cubic yards to cubic feet.
33. 5.7 cubic meters to cubic centimeters.
34. 10 cubic inches to cubic centimeters.
35. 1 cubic mile to cubic kilometers.
36. 1,500,000 cubic millimeters to cubic meters.

Make the following conversions: (liquid volume)

37. 6 cups to fluid ounces.
38. $3\frac{1}{2}$ quarts to cups.
39. 10 pints to gallons.
40. 120 cubic centimeters to liters.
41. 2 liters to gallons.
42. 10 fluid ounces to liters.

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ANSWERS— Conversion Factors

1. 54 in
2. $3\frac{1}{3}$ yds
3. 8.3 cm
4. 3520 yds
5. 1.61 km
6. 0.39 in
7. 0.0095 km
8. $8\frac{1}{3}$ yds
9. 545.6 ft
10. 1.24 mi

11. $1\frac{2}{3}$ hrs
12. 3600 min
13. 0.09 min
14. $16\frac{2}{3}$ hrs

15. $2\frac{1}{2}$ lbs
16. 2.84 kg
17. 1.75 oz
18. 1300 lbs

19. $\frac{1}{4}$ sq ft
20. 7,000,000 m²
21. 150,000 mm
22. $\frac{1}{9}$ yd²
23. 2880 sq in
24. 5.2 km²
25. 0.77 sq in
26. $1\frac{7}{9}$ sq yd
27. 0.0375 m²
28. 55,000 cm²

29. $3\frac{1}{3}$ cubic yd
30. 0.054 m³
31. 0.77 cubic yd

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- 32. 216 cubic feet
- 33. 5,700,000 cm³
- 34. 163.87 cm³
- 35. 4.20 km⁵
- 36. 0.0015 m³

- 37. 48 fl oz
- 28. 14 cups
- 39. 1.25 g
- 40. 0.12 L
- 41. 0.53 g
- 42. 0.30 L