

Learning Outcomes Covered:

7A: I can convert between different metric units.

Convert each of the following to the unit indicated.

1) 596 cm = 5.96 m
 $596 \div 10^2$

8) 5.96 cm = 59.6 mm
 5.96×10^1

2) 1200 m = 1.2 km
 $1200 \div 10^3$

9) 651 dam = 65100 dm
 651×10^2

3) 140 dm = 14 m
 $140 \div 10^1$

10) 425 mm = 4.25 dm
 $425 \div 10^2$

4) 1.5 km = 1500 m
 1.5×10^3

11) 285 km = 2850 hm
 285×10^1

5) 696 km = 696,000,000 mm
 696×10^6

12) 0.1 hm = 10 m
 0.1×10^2

6) 825 hm = 82.5 km
 $825 \div 10^1$

13) 783 dam = 7.83 km
 $783 \div 10^2$

7) 17 m = 1.7 hm
 $17 \div 10^1$

14) 23 dm = 230 cm
 23×10^1

Find the sum of each of the following:

1) $30 \text{ cm} + 35 \text{ cm} + 45 \text{ cm} = \underline{11} \text{ m}$
 $0.3 + 0.35 + 0.45$

7) $42 \text{ cm} + 450 \text{ mm} + 65 \text{ cm} = \underline{152} \text{ m}$
 $0.42 + 0.45 + 0.65$

2) $3 \text{ cm} + 50 \text{ mm} + 55 \text{ cm} = \underline{63} \text{ cm}$
 $3 + 5 + 55$

8) $6.4 \text{ dam} + 3.4 \text{ hm} + 20 \text{ dm} = \underline{406} \text{ m}$
 $64 + 340 + 2 =$

3) $1.5 \text{ km} + 50 \text{ m} + 900 \text{ cm} = \underline{1559} \text{ m}$
 $1500 + 50 + 9$

9) $70 \text{ mm} + 70 \text{ cm} + 70 \text{ m} = \underline{7077} \text{ cm}$
 $7 + 70 + 7000$

4) $6 \text{ hm} + 350 \text{ m} = \underline{950} \text{ m}$
 $600 + 350$

10) $6 \text{ cm} + 70 \text{ mm} + 3 \text{ dm} = \underline{43} \text{ cm}$
 $6 + 7 + 30$

5) $3.5 \text{ cm} + 65 \text{ mm} + 4.3 \text{ m} = \underline{4400} \text{ mm}$
 $35 + 65 + 4300$

11) $9 \text{ cm} + 8 \text{ mm} + 25 \text{ mm} = \underline{123} \text{ mm}$
 $90 + 8 + 25$

6) $6 \text{ cm} + 8 \text{ km} + 3 \text{ hm} = \underline{80300.6} \text{ dm}$
 $0.6 + 80000 + 300$

12) $6 \text{ m} + 18 \text{ cm} + 12 \text{ mm} = \underline{6.192} \text{ m}$
 $6 + 0.18 + 0.012$