Practice exercise: Metric Measurement

Subtopic: Metric Conversion

Fill in the blanks

A. Length

- **Eg: 200cm = 2 m**
  - **In order to answer this question, we have to know each of their metric conversion. Knowing that 1 m = 100 cm. cm is smaller than m. To change smaller to larger unit, we have to divide. Then, 200cm ÷ 100cm = 2.**

1. 10 cm = _____ in
2. 1 mm = _____ cm
3. 0.65 mm = _____ cm
4. 1 m 5 cm = _____ cm
5. 35 mm = _____m
6. 30 m = _____ feet
7. 3 miles = _____ m
8. 12 miles = _____km
9. 159 km = _____m
10. ½ in = _____ yd
11. 87.6 cm = _____dm
12. 51.36 m = _____km
13. 4816 m = _____km
14. 2.5 m = _____km
15. 9.256 km = _____m
16. 26 ft = _____yd
17. 2 ½ yd = _____ ft
18. 222 in. = _____ft
19. 99 ft = _____in.
20. 573 in. =_____yd

B. Time

1. 5 hr 35 min = _____sec
2. 276 sec = _____hr
3. 24 hr = _____min
4. 360 min = _____hr
5. 12 hr 35 min = _____min
6. 7880 sec = _____hr
7. 804 min = _____hr
8. 0.37 hr = _____sec
9. $8\frac{1}{4}$ hr = _____min
10. 345.6 sec = _____min

C. Weight

1. 65 kg = _____ g
2. 2356 g = _____ kg
3. 16 g = _____ kg
4. 528 mg = _____ g
5. 7 t = _____ cg
6. 4.222 kg = _____g
7. 0.27 t = _____ mg
8. $1\frac{2}{5}$ kg = _____g
9. 9584 mg = _____cg
10. 0.567 cg = _____mg

D. Area

1. 900 mm^2 = _____ cm^2

2. 3 m^2 = _____ cm^2

3. 527 cm^2 = _____ dm^2

4. 951 dm^2 = _____ m^2

5. 1392 cm^2 = _____ m^2

6. 0.481 m^2 = _____ cm^2

7. 0.07 dm^2 = _____ cm^2

8. 0.000025 dm^2 = _____ mm^2

9. $\frac{2}{5}$ m^2 = _____ dm^2

10. $\frac{6}{25}$ cm^2 = _____ mm^2

E. Volume

1. 2.5 L = _____mL

2. 8467 mL = _____L

3. 24569 mL = _____L

4. 0.005 L = _____mL

5. 32.512 L = _____mL

6. $\frac{3}{100}$ L = _____mL

7. $\frac{12}{250}$ L = _____mL

8. 0.1357 mL = _____L

9. 5.079 mL = _____L

10. 73.09 mL = _____L

Answer Key
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A.

1. 3.937
2. 0.1
3. 0.065
4. 105
5. 0.035
6. 98.43
7. 4 828
8. 19.31
9. 159 000
10. 0.01389
11. 8.760
12. 0.05136
13. 4.816
14. 0.0025
15. 9 256
16. 8.667
17. 7.5
18. 18.5
19. 1 188
20. 15.92

B.

1. 20 100
2. 0.07667
3. 1 440
4. 6
5. 755
6. 2.189
7. 13.4
8. 1 332
9. 495
10. 5.76

C.

1. 65 000
2. 2.356
3. 256
4. 0.528
5. 7×10^{8}
6. 4 222
7. 2.7×10^{8}
8. 1 400
9. 958.4
10. 5.67

D.

1. 9
2. 3×10^{4}
3. 5.27
4. 9.51×10^{4}
5. 0.1392
6. 4.81×10^{3}
7. 7
8. 0.25
9. $\frac{2}{5} \times 10^{2}$
10. $\frac{6}{25} \times 10^{2}$

E.

1. 2 500
2. 8.467
3. 24.569
4. 5
5. 32 512
6. 30
7. 48
8. 1.357×10^{-4}
9. 5.079×10^{-3}
10. 7.309×10^{-2}