**Converting Units of Length**

**(mm, cm, m, dm, km)**

\*\*Use a meter stick and ruler to compare the lengths

**mm: millimetres** (ex. the width of a nickel)

Converting **mm** to \_\_\_\_\_\_\_\_\_\_

To get from **mm** to **cm** you divide (÷) by 10

To get from **mm** to **dm** you divide (÷) by 100 (10 x 10)

To get from **mm** to **m** you divide (÷) by 1 000 (10 x10 x10)

To get from **mm** to **cm** you divide (÷) by 1 000 000 (10 x 10 x 10 x 1000)

Examples:

10 **mm**= 1 **cm**

100 **mm**= 1 **dm**

1000 **mm**= 1 **m**

1 000 000 **mm**= 1 **km**

880 **mm**: 88 **cm**

200 **mm:** 2 **dm**

3000 **mm**: 3 **m**

9 000 000 **mm**: 9 **km**

**cm: centimetres** (ex. length of a dime)

Converting **cm** to \_\_\_\_\_\_\_\_\_\_

To get from **cm** to **mm** you multiply (x) by 10

To get from **cm** to **dm** you divide (÷) by 10

To get from **cm** to **m** you divide (÷) by 100 (10 x 10)

To get from **cm** to **km** you divide (÷) by 100 000 (10 x 10 x 1000)

Examples:

1 **cm**= 10 **mm**

10 **cm**= 1 **dm**

100 **cm**= 1 **m**

100 000 **cm**= 1 **km**

29 **cm**= 290 **mm**

80 **cm**= 8 **dm**

400 **cm**= 4 **m**

300 000 **cm=** 3 **km**

**dm: decimetre** (ex. width of your palm)

Converting **dm** to \_\_\_\_\_\_\_\_\_\_

To get from **dm** to **mm** you multiply (x) by 100 (10 x10)

To get from **dm** to **cm** you multiply (x) by 10

To get from **dm** to **m** you divide (÷) by 10

To get from **dm** to **km** you divide (÷) by 10 000 (10 x 1000)

Examples:

1 **dm**= 100 **mm**

1 **dm**= 10 **cm**

10 **dm**= 1 **m**

10 000 **dm**= 1 **km**

2 **dm**= 200 **mm**

3 **dm**= 30 **cm**

80 **dm**= 8 **m**

40 000 **dm**= 4 **km**

**m: metres / meters** (ex. meter stick)

Converting **m** to \_\_\_\_\_\_\_\_\_\_

To get from **m** to **mm** you multiply (x) by 1 000 (10 x 10 x 10)

To get from **m** to **cm** you multiply (x) by 100 (10 x 10)

To get from **m** to **dm** you multiply (x) by 10

To get from **m** to **km** you divide (÷) by 1 000

1 **m**= 1 000 **mm**

1 **m**= 100 **cm**

1 **m**= 10 **dm**

1 000 **m**= 1 **km**

7 **m**= 7 000 **mm**

9 **m**= 900 **cm**

3 **m=** 30 **dm**

5 000 **m**= 5 **km**

**km: kilometre** (Canadians use km to measure distance when driving,

ex. “It is 2km from my home to my school”)

Converting **km** to \_\_\_\_\_\_\_\_\_\_

To get from **km** to **mm** you multiply (x) by 1 000 000 (10 x 10 x 10 x 1000)

To get from **km** to **cm** you multiply (x) by 100 000 (10 x 10 x 1000)

To get from **km** to **dm** you multiply (x) by 10 000 (10 x 1000)

To get from **km** to **m** you multiply (x) by 1 000

1 **km**= 1 000 000 **mm**

1 **km**= 100 000 **cm**

1 **km** = 10 000 **dm**

1 **km**= 1 000 **m**

6 **km**= 6 000 000 **mm**

2 **km**= 200 000 **cm**

34 **km**= 34 000 **dm**

5 **km**= 5 000

**Converting units of length**

Worksheet 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 1a. | 2 km = \_\_\_\_\_\_\_\_\_\_ m | | |  |  | | --- | --- | | 1b. | 70 mm = \_\_\_\_\_\_\_\_\_\_ cm | |
| |  |  | | --- | --- | | 2a. | 300 cm = \_\_\_\_\_\_\_\_\_ dm | | |  |  | | --- | --- | | 2b. | 10 cm = \_\_\_\_\_\_\_\_\_\_ mm | |
| |  |  | | --- | --- | | 3a. | 6 m = \_\_\_\_\_\_\_\_\_\_ cm | | |  |  | | --- | --- | | 3b. | 500 cm = \_\_\_\_\_\_\_\_\_\_ m | |
| |  |  | | --- | --- | | 4a. | 9 m = \_\_\_\_\_\_\_\_\_\_ cm | | |  |  | | --- | --- | | 4b. | 3 dm = \_\_\_\_\_\_\_\_\_\_\_\_ m | |
| |  |  | | --- | --- | | 5a. | 7 km = \_\_\_\_\_\_\_\_\_\_ m | | |  |  | | --- | --- | | 5b. | 700 cm = \_\_\_\_\_\_\_\_\_\_ m | |
| |  |  | | --- | --- | | 6a. | 5000 m = \_\_\_\_\_\_\_\_\_ km | | |  |  | | --- | --- | | 6b. | 900 dm = \_\_\_\_\_\_\_\_\_\_ m | |
| |  |  | | --- | --- | | 7a. | 4 km = \_\_\_\_\_\_\_\_\_\_ m | | |  |  | | --- | --- | | 7b. | 1000 m = \_\_\_\_\_\_\_\_\_\_ km | |
| |  |  | | --- | --- | | 8a. | 1 cm = \_\_\_\_\_\_\_\_\_\_ mm | | |  |  | | --- | --- | | 8b. | 30 mm = \_\_\_\_\_\_\_\_\_\_ cm | |
| |  |  | | --- | --- | | 9a. | 2 cm = \_\_\_\_\_\_\_\_\_\_ mm | | |  |  | | --- | --- | | 9b. | 6 cm = \_\_\_\_\_\_\_\_\_\_\_ mm | |
| |  |  | | --- | --- | | 10a. | 4 cm = \_\_\_\_\_\_\_\_\_\_\_ mm | | |  |  | | --- | --- | | 10b. | 8000 m = \_\_\_\_\_\_\_\_\_\_ dm | |

**Converting units of length**

Worksheet 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 1a. | 8 m = \_\_\_\_\_\_ cm | | |  |  | | --- | --- | | 1b. | 4 cm = \_\_\_\_\_\_ mm | |
| |  |  | | --- | --- | | 2a. | 30 mm = \_\_\_\_\_ cm | | |  |  | | --- | --- | | 2b. | 7 m = \_\_\_\_\_\_ cm | |
| |  |  | | --- | --- | | 3a. | 9000 m = \_\_\_\_\_ dm | | |  |  | | --- | --- | | 3b. | 10 mm = \_\_\_\_\_ cm | |
| |  |  | | --- | --- | | 4a. | 7 km = \_\_\_\_\_\_ m | | |  |  | | --- | --- | | 4b. | 1000 cm = \_\_\_\_\_ m | |
| |  |  | | --- | --- | | 5a. | 60 mm = \_\_\_\_\_ cm | | |  |  | | --- | --- | | 5b. | 1 km = \_\_\_\_\_\_ m | |
| |  |  | | --- | --- | | 6a. | 6 m = \_\_\_\_\_\_ cm | | |  |  | | --- | --- | | 6b. | 1 m = \_\_\_\_\_\_ cm | |
| |  |  | | --- | --- | | 7a. | 5 dm = \_\_\_\_\_\_ mm | | |  |  | | --- | --- | | 7b. | 70 mm = \_\_\_\_\_ cm | |
| |  |  | | --- | --- | | 8a. | 10 cm = \_\_\_\_\_\_ mm | | |  |  | | --- | --- | | 8b. | 6 km = \_\_\_\_\_\_ m | |
| |  |  | | --- | --- | | 9a. | 900 cm = \_\_\_\_\_ m | | |  |  | | --- | --- | | 9b. | 8 dm = \_\_\_\_\_\_ m | |
| |  |  | | --- | --- | | 10a. | 4 m = \_\_\_\_\_\_ cm | | |  |  | | --- | --- | | 10b. | 3 m = \_\_\_\_\_\_ cm | |