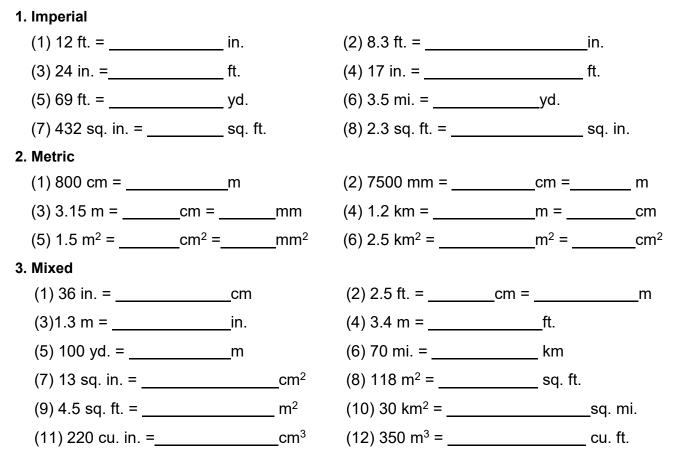**KPU** | KWANTLEN POLYTECHNIC UNIVERSITY

Unit Conversion Worksheet 1

* Round up your answer to the nearest hundredth if it is applicable.

Convert the following measurements.

1. Imperial

(1) 12 ft. = _____ in.

(2) 8.3 ft. = _____ in.

(3) 24 in. = _____ ft.

(4) 17 in. = _____ ft.

(5) 69 ft. = _____ yd.

(6) 3.5 mi. = _____ yd.

(7) 432 sq. in. = _____ sq. ft.

(8) 2.3 sq. ft. = _____ sq. in.

2. Metric

(1) 800 cm = _____ m

(2) 7500 mm = _____ cm = _____ m

(3) 3.15 m = _____ cm = _____ mm

(4) 1.2 km = _____ m = _____ cm

(5) 1.5 m^2 = _____ cm^2 = _____ mm^2

(6) 2.5 km^2 = _____ m^2 = _____ cm^2

3. Mixed

(1) 36 in. = _____ cm

(2) 2.5 ft. = _____ cm = _____ m

(3) 1.3 m = _____ in.

(4) 3.4 m = _____ ft.

(5) 100 yd. = _____ m

(6) 70 mi. = _____ km

(7) 13 sq. in. = _____ cm^2

(8) 118 m^2 = _____ sq. ft.

(9) 4.5 sq. ft. = _____ m^2

(10) 30 km^2 = _____ sq. mi.

(11) 220 cu. in. = _____ cm^3

(12) 350 m^3 = _____ cu. ft.

4. An old atlas states that Canada is about 3.85 million square miles in area. What is the area of Canada in km^2?

5. The basketball hoop is mounted 10 feet high above the ground. How high is the measurement listed in meters?

6. An NBA standard court size is 94ft length and 50ft width. What is the court size listed in meters? Please calculate the area of the court as square feet and square meters.

Unit Conversion Worksheet 1

Answer Key

1. Imperial

(1) 144 in.	(2) 99.6 in.	(3) 2 ft.	(4) 1.43 ft.
(5) 69 ft.	(6) 6160 yd.	(7) 3 sq. ft.	(8) 331.2 sq.in.

2. Metric

(1) 0.8m	(2) 750 cm , 7.5 m	(3) 315 cm , 3150 mm
(4) 1200 m, 120000 cm	(5) 15000 cm^2, 1500000 mm^2	(6) 2500,000 m^2 25,000,000,000 cm^2

3. Mixed

(1) 9.14 cm	(2) 76.2 cm	(3) 51.18 in.	(4) 11.15 ft.
(5) 14.17 m	(6)17.46 km	(7) 83.87 cm^2	(8) 1269.49 sq. ft.
(9) 0.42 m^2	(10) 11.82 sq. mi.	(11) 3605.15 cm^3	(12) 12350.54 cu. ft.

4. 9,856,000 km^2

5. 3.048 m

6. 28.65 m × 15.24 m, 4700 sq. ft., 436.63 m^2

Trades Learning Aid