

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

TRANSPORTABILITY GUIDANCE
TRUCK, DUMP, 2 1/2 TON, 6x6, M47

Headquarters, Department of the Army, Washington 25, D. C.
20 August 1962

	Paragraph	Page
Purpose	1	1
Scope	2	1
Modes of transport.	3	1
Sectionalization	4	1
Item characteristics	5	2
Suggested changes.....	6	2

1. Purpose. This bulletin contains transportability guidance required by Transportation Corps personnel responsible for the shipment or movement of the Truck, Dump, 2 1/2 Ton, 6 x 6, M47 (fig. 1).

2. Scope. The information contained in this bulletin covers significant transportability and safety considerations in the movement of the item by the various modes of transport. Side and end profiles are provided which show dimensions in detail, including the location and capacity of tiedown and lifting provisions as well as the location of the center of gravity. Sectionalization is described to the extent that it is required by transportation needs. A characteristic data paragraph which gives item weight, cube, and other pertinent transportability data is included.

3. Modes of Transport. *a. Shipment by Air.* The item is not transportable in U.S. Army aircraft. Based on a typical logistical mission of 1000 nautical miles (one way) the item is transportable, with- out sectionalization, in the C-130A, C-124A, C-124C, and C-133A U.S. Air Force aircraft.

b. Shipment by Highway. The item is transportable under its own power highway movement. No weight or dimensional limits are exceeded in Continental United

States (CONUS) or in overseas areas. See figure 5 for turning characteristics.

c. Shipment by Rail. The item is transportable in CONUS and in countries complying with the Berne International Railway Interchange Agreement Diagram without limitation, when loaded on a railroad flatcar.

d. Shipment by Water. The item is transportable by inland waterway cargo carriers and lighters of adequate capacity. The item is transportable by the Mariner, Victory, and Liberty class seagoing vessels within the following restrictions:

Class	<i>Hatch size adequate</i>	<i>Hatch boom adequate</i>	<i>Hatches requiring terminal crane</i>
(1) Mariner	Nos. 2, 3, 4, 5, 6, 7	Nos. 2, 3, 4, 5, 6	No. 7
(2) Victory	Nos.1, 2, 3, 4, 5	Nos. 3, 4	Nos. 1, 2, 5
(3) Liberty	Nos.1, 2, 4, 5	Nos. 2, 4	Nos. 1, 5

4. Sectionalization. The overall height can be reduced from 102.5 inches to 81.5 inches by removing the gravel shield, operator's cab top, and folding the windshield. Four bolts on each side of the gravel shield require removal, after which the shield should be secured in the vehicle cargo bed. Tools

organic to the vehicle are sufficient for the sectionalization operation. A crane or other suitable lifting device is desirable to handle the gravel shield during removal.

5. Item Characteristics. (Data based on item in unloaded condition) Nomenclature-Truck, Dump, 2 1/2 Ton, 6 x 6, M47

	<i>W/winch</i>	<i>W/out winch</i>
FSN	2320-835-8310	2320-835-8339
EAM Line Item No.	460710	460680
Type	Standard B	Standard B
Length	248.5 inches (6.31)	235 inches (5.97)
Width.....	84.25 inches (2.14)	84.25 inches (2.14)
Height	102.5 inches (2.60)	102.5 inches (2.60)
Weight.....	13,860 lbs.....	13,450 lbs
Shipping Dimensions, Uncrated		
Volume.....	1242 cu ft	1174 cu ft
Area.....	145 sq ft	138 sq ft
Freight Classification, Freight Automobiles:		
Uniform Freight Classification (UFC) 6 Item	93340	

National Motor Freight Classification (NMFC) No. A-6, Item 190190

	<i>W/winch</i>	<i>W/out winch</i>
Vehicle Classification	6	6
Angle of Approach	40°	48°
Angle of Departure	76°	76°
Turning Radii (R&L).....	36 ft (10.96)	35 ft (10.67)
Center of Gravity:		
Above Ground	35 inches (.89)	
From C Front Axle	79.5 inches (2.02)	
Tire Size-10:00 x 20, 12 ply, 45 p.s.i.		
Publications--TM 9-8022, TM 9-8023 -1, -2, -3		

Note. Figures in parentheses are meter.

6. Suggested Changes. Notice of discrepancies and/or changes for the improvement of this bulletin are encouraged. Submit all such communications on DA Form 2028 (Recommended Changes to DA Technical Manual Parts Lists or Supply Manual 7, 8, or 9) to the Chief of Transportation, ATTN: TCTEN, Department of the Army, Washington 25, D.C.

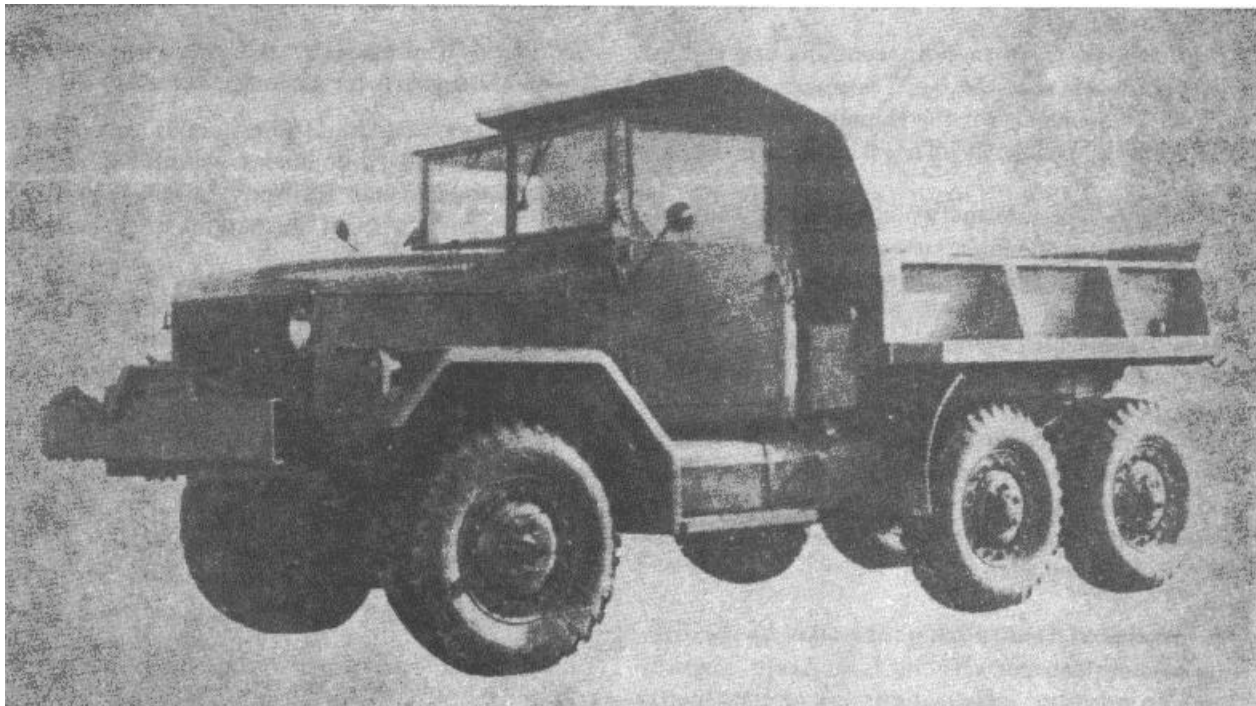
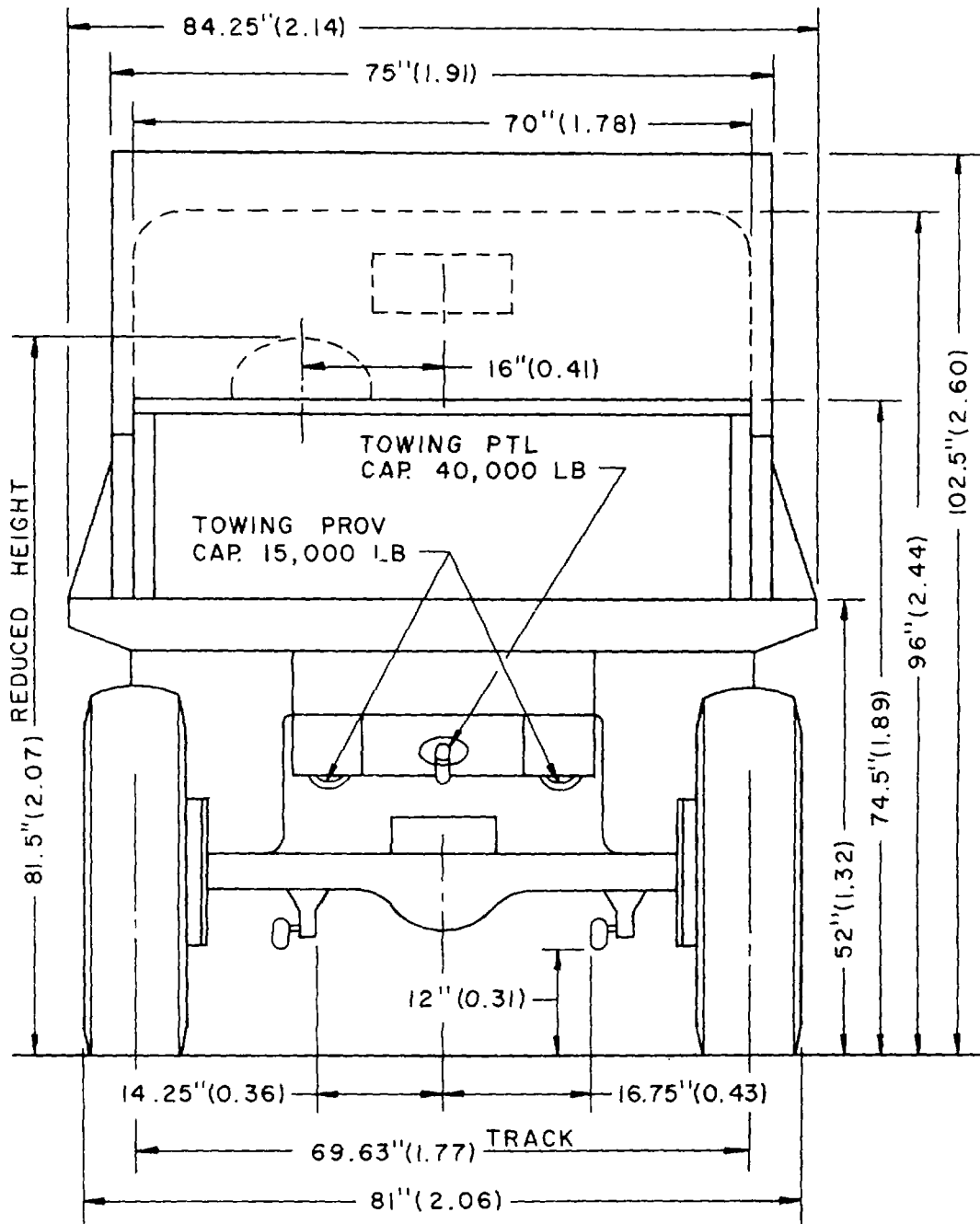


Figure 1. Truck, dump, 2 1/2 ton, 6x6, M47.

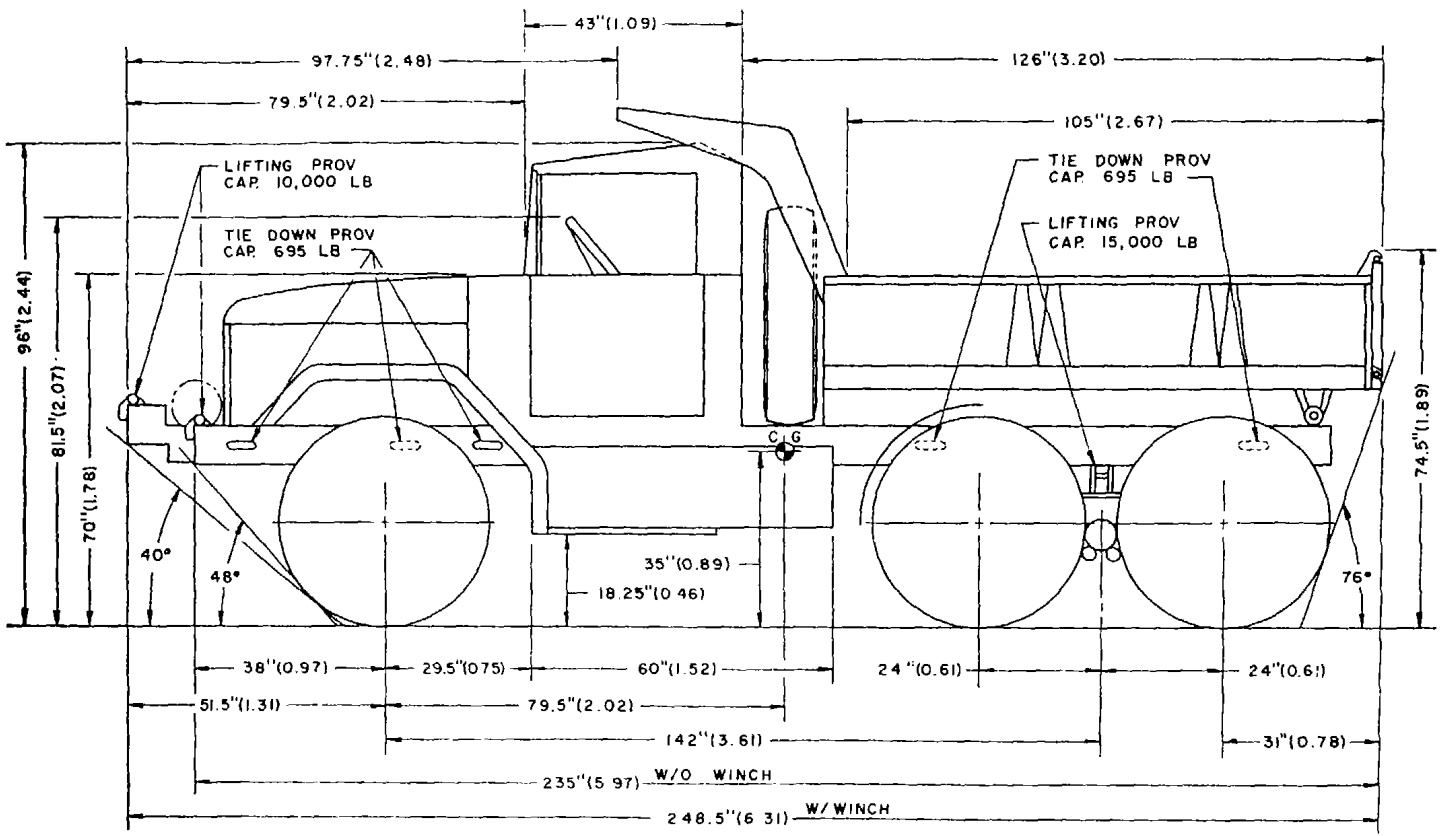


FIGURES IN PARENTHESES ARE METERS

TRUCK, DUMP, 2 1/2 TON, 6 x 6, M47

SCALE 1:20

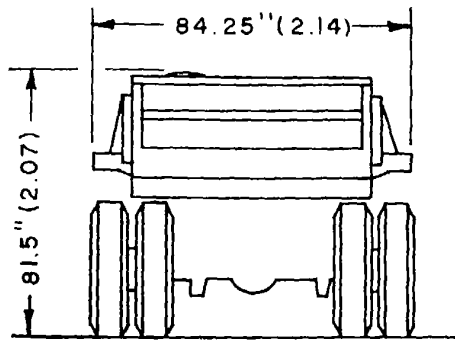
Figure 2.



FIGURES IN PARENTHESES ARE METERS

TRUCK, DUMP, 2 1/2 TON, 6 x 6, M47
 SCALE 1:40

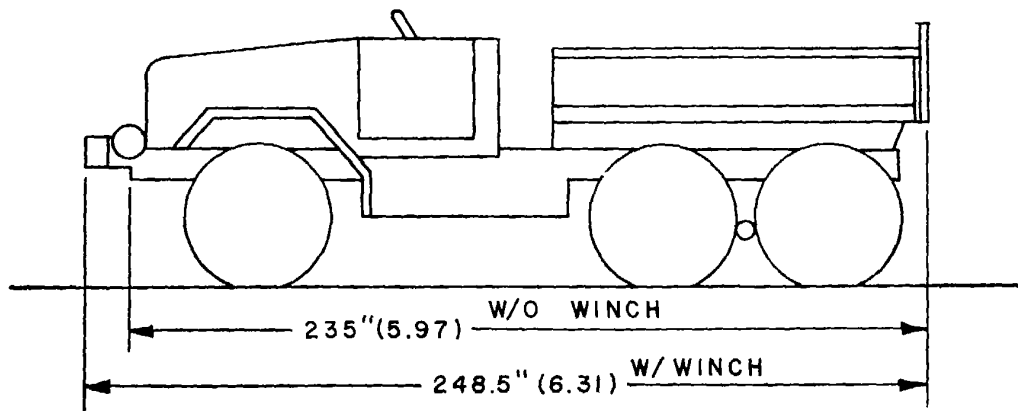
Figure 3.



SHIPPING DATA

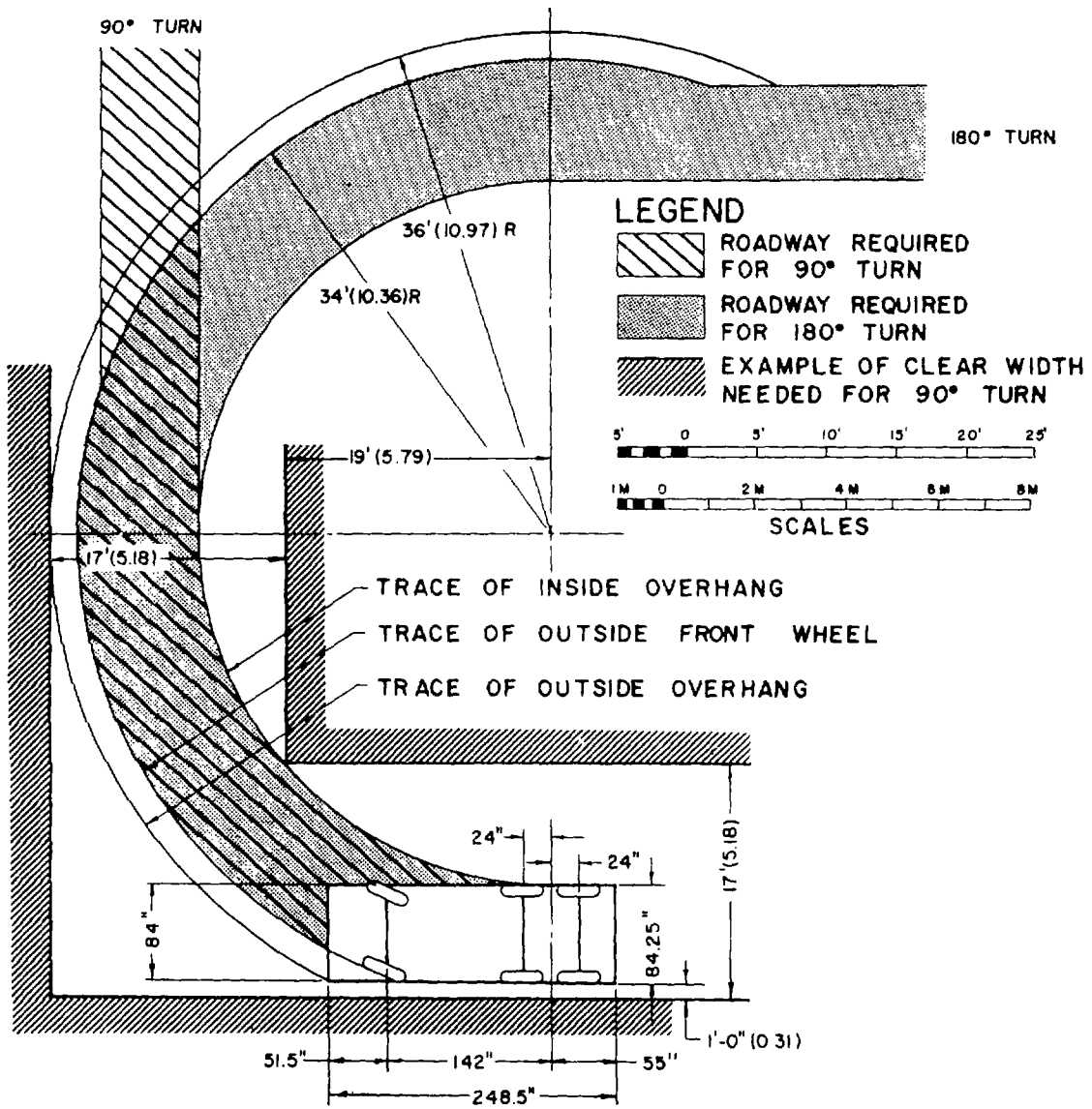
	<u>W/ WINCH</u>		<u>W/O WINCH</u>	
WT,	13,860	LB	13,450	LB
VOL,	985.3	CU FT	932.9	CU FT
AREA,	144.9	SQ FT	137.2	SQ FT

FIGURES IN PARENTHESES
ARE METERS



TRUCK, DUMP, 2 ¹/₂ TON, 6x6, M47
SECTIONALIZATION DIAGRAM

Figure 4.



FIGURES IN PARENTHESES ARE METERS

TRACKING DIAGRAM
 TRUCK, DUMP, 2½ TON, 6x6, M 47

Figure 5.

BY ORDER OF THE SECRETARY OF THE ARMY:

G. H. DECKER,
General, United States Army,
Chief of Staff.

Official:

J. C. LAMBERT,
Major General, United States Army,
The Adjutant General.

Distribution:

Active Army:

DCSLOG (1)
CNGB (2)
CARROTC (2)
CARR (2)
Tech Stf, DA (1) except
 CofT (80)
Tech Stf Bd (2)
USCONAC (4)
ARADCOM (2)
ARADCOM Rgn (2)
OS Maj Comd (10)
OS Base Cormd (2)
MDW (2)
Armies (5)
29th Trans Bn (1)

Svc Colleges (2)
Br Svc Sch (2)
GENDEP (5) except
 Atlanta GENDEP (none)
Trans Sec, GENDEP (3)
Trans Dep (3)
USATMIC (50)
POE (2)
USA Trans Tml Cornd (2) except
 USATTCA (20)
Army Tml (2)
OSA (1)
USA Tranls Agcy, Japan (1)
Def Tfc Mgt Svc (10)
USA Corps (1)

NG: State AG (3).

USAR: None.

For explanation of abbreviations used, see AR 320-50.

TAGO 5830-A

*U.S. GOVERNMENT PRINTING OFFICE: 1994 - 300-421 (81917)

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

 <div style="border: 1px solid black; border-radius: 15px; padding: 5px; display: inline-block; margin-left: 20px;"> <p style="margin: 0;"><i>THEN...JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.</i></p> </div>		SOMETHING WRONG WITH PUBLICATION	
		FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)	
PUBLICATION NUMBER		DATE SENT	
PUBLICATION DATE		PUBLICATION TITLE	
BE EXACT PIN-POINT WHERE IT IS			
PAGE NO.	PARA- GRAPH	FIGURE NO.	TABLE NO.
<div style="border: 1px solid black; height: 400px; margin-top: 10px;"> <p style="text-align: center; font-weight: bold; margin-top: 10px;">IN THIS SPACE, TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT.</p> </div>			
PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER			SIGN HERE

The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
 1 decimeter = 10 centimeters = 3.94 inches
 1 meter = 10 decimeters = 39.37 inches
 1 dekameter = 10 meters = 32.8 feet
 1 hectometer = 10 dekameters = 328.08 feet
 1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
 1 decigram = 10 centigrams = 1.54 grains
 1 gram = 10 decigrams = .035 ounce
 1 decagram = 10 grams = .35 ounce
 1 hectogram = 10 decagrams = 3.52 ounces
 1 kilogram = 10 hectograms = 2.2 pounds
 1 quintal = 100 kilograms = 220.46 pounds
 1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce
 1 deciliter = 10 centiliters = 3.38 fl. ounces
 1 liter = 10 deciliters = 33.81 fl. ounces
 1 dekaliter = 10 liters = 2.64 gallons
 1 hectoliter = 10 dekaliters = 26.42 gallons
 1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

<i>To change</i>	<i>To</i>	<i>Multiply by</i>	<i>To change</i>	<i>To</i>	<i>Multiply by</i>
inches	centimeters	2.540	ounce-inches	Newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	Newton-meters	1.356	metric tons	short tons	1.102
pound-inches	Newton-meters	.11296			

Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C
----	------------------------	----------------------------	---------------------	----

PIN: 009219-000