# **MEASUREMENTS & QUANTITIES**

### **PRAYER TIMES**

#### **Introduction to Prayer Times/Zmanim**

To calculate prayer times (*zmanim*), divide the total hours of daylight (from sunrise to sunset) by 12. This gives the local "hour" length, called *halachic hour* (*sha'a zmanit*).

#### **Individual Prayer Times**

Plag HaMincha: 1 1/4 halachic hours before sunset until sunset.

NOTE <u>*Plag ha'mincha*</u> is usually calculated from sunrise to sunset. If necessary, an alternative calculation may be used from dawn to dark, which results in <u>*plag ha'mincha'*</u>'s being somewhat later.

Mincha Gedala: 1/2 hour after halachic midday until 2 1/2 halachic hours before sunset.

Mincha Ketana: 2 1/2 halachic hours before sunset until sunset.

*Tzeit HaKochavim*: 36 to 72 minutes after sunset, depending on the opinion, purpose, and geographical location.

# **LENGTH/OBJECTS**

#### Length/Objects

*Tefach* = 4 fingers' width =  $3\frac{1}{2}$ " (8 cm) to 4" (10 cm) *Lavud* = 3 *Tefachim* =  $10\frac{1}{2}$ " (27 cm) to 12" (30 cm) *Ama* = 6 *Tefachim* =  $21\frac{1}{4}$ " (54 cm) to 24 1/2" (63 cm) (depending on the application) *Tefachim* = 40" (1 m) (for *Shabbat* border)

### DISTANCE

#### Distance

1 Mil = 0.7 miles (1.2 km) = 2000 amot
4 Milin = 1 parsa
1 Parsa = 4 mil = 2.8 miles (4.5 km)
Dalet Amot (4 cubits) = about 7 feet—minimum, 7 feet, 1 inch" (2.2 m); maximum, 8 feet (2.4 m)-but an entire dwelling may be considered your personal (halachic) dalet amot.

### **VOLUME/SOLID**

#### Volume/Solid

### K'Zayit

*K'zayit* is variously defined as being the volume of 1/3,  $\frac{1}{2}$ , or 1 whole egg; 0.6 - 1.9 fl. oz. (18-56 ml), depending on the application.

- NOTE For d'*oraita* requirements such as *seder*, we are stringent (*machmir*) and use the larger amount of 1.9 fl. oz. (56 ml). For d'*rabanan* rules, we are more lenient and use only 1.3 fl. oz. (39 ml, or 1/6 cup).
  - K'zayit for Seder Matza and Afikoman: 1.9 fl. oz. (56 ml) of matza.

• K'zayit for Bracha Achrona and Birkat HaMazon: 1.3 fl. oz. (39 ml, or 1/6 cup) of solid food.

### Beitza, K'Beitza

Beitza, K'Beitza = 1.9 fl. oz. (56 ml); an egg size by definition.

NOTE For an *etrog*, which must be at least 1 egg volume, today we use a minimum of 2 egg volumes.

# **VOLUME/LIQUID**

### **Volume/Liquid**

1 *Revi'it* = Usually 3.3 fl. oz. (99 ml); but 4 fl. oz. (119 ml) for:

- Any food requiring *bracha\_achrona*.
- The four cups of wine at the *seder*.
- Kiddush for Shabbat and Jewish festival nights.

1 <u>Log</u> = Volume of 6 eggs = 4 <u>Revi'ot</u> (a <u>revi'it</u> is 1/4 of a <u>log</u>) 1 Kab = 4 <u>Login</u> 1 <u>Se'ah</u> = 6 Kabin

40 Se'ah = Volume equivalent to 3 cubes,  $24 \frac{1}{2}$ " (61 cm) on each side; minimum requirement for *mikva* = about 192 gallons/750 liters

1 fl. oz. = 1.77 cu. inch (about the size of a golf ball)

# **MONETARY VALUE**

#### **Monetary Value**

Shava Pruta: Value of a pruta coin; value of <sup>1</sup>/<sub>2</sub> a barley grain's volume in silver.

NOTE <u>Shava pruta</u> signifies the smallest usable amount of money. Since not much can be bought for 1 cent (or less!), a dime is about the value we should use as a minimum.

© Copyright 2024 Richard B. Aiken | www.practicalhalacha.com