



While we do not encourage UPC bar code users to try calculating their Check Digits (because computers are ideally designed for the task), we provide this worksheet for those who can't resist testing their arithmetic skills.

1 Using the bar code above as an example, start with the first digit (8) and sum the six **odd positioned** digits.

$$\frac{8}{\text{ODD}} + \frac{1}{\text{ODD}} + \frac{7}{\text{ODD}} + \frac{0}{\text{ODD}} + \frac{1}{\text{ODD}} + \frac{3}{\text{ODD}} = \mathbf{20}$$

2 Multiply by 3 the sum (20) obtained in step 1. $3 \times 20 = \mathbf{60}$

3 Sum the five **even positioned** digits.

$$\frac{0}{\text{EVEN}} + \frac{1}{\text{EVEN}} + \frac{0}{\text{EVEN}} + \frac{0}{\text{EVEN}} + \frac{2}{\text{EVEN}} = \mathbf{3}$$

4 Add the product of step 2 (60) to the sum of step 3 (3). $60 + 3 = \mathbf{63}$

5 The check digit is the difference between the sum obtained in step 4 (63) and the next highest multiple of ten (70).
(If the sum obtained in step 4 is a multiple of ten, the check digit is zero.) $70 - 63 = \mathbf{7}$

CHECK
DIGIT

Now use **your** UCC Company Prefix and Item Reference number with the worksheet below to calculate **your** check digit.

1 Starting with position one (the number system character) sum the six **odd positioned** digits.

$$\frac{\quad}{\text{ODD}} + \frac{\quad}{\text{ODD}} + \frac{\quad}{\text{ODD}} + \frac{\quad}{\text{ODD}} + \frac{\quad}{\text{ODD}} + \frac{\quad}{\text{ODD}} = \quad$$

2 Multiply by 3 the sum obtained in step 1. $3 \times \quad = \quad$

3 Sum the five **even positioned** digits.

$$\frac{\quad}{\text{EVEN}} + \frac{\quad}{\text{EVEN}} + \frac{\quad}{\text{EVEN}} + \frac{\quad}{\text{EVEN}} + \frac{\quad}{\text{EVEN}} = \quad$$

4 Add the product of step 2 to the sum of step 3. $\quad + \quad = \quad$

5 The check digit is the difference between the sum obtained in step 4 and the next highest multiple of ten.
(If the sum obtained in step 4 is a multiple of ten, the check digit is zero.) $\quad - \quad = \quad$

CHECK
DIGIT

For direct application
Pressure sensitive

BAR CODE
LABELS

For desktop publishers
Encapsulated PostScript®

BAR CODE
DIGIMASTERS™

For your printer
Plate ready

BAR CODE
FILMASTERS™

For keylining
Camera ready

BAR CODE
REPROMASTERS™