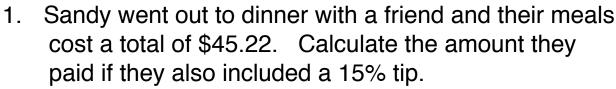
CALCULATOR APPLICATION TIPS (AUGUST 2017)

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$$1.15(45.22) = $52.00$$

2. A rectangle measures 87 feet by 37 feet. Calculate the radius of a circle that has the same area as the rectangle.

Area of a circle = πr^2 ; Area of a rectangle = LW

$$\pi r^2 = (87)(37)$$
; $r^2 = \frac{(87)(37)}{\pi}$; $r = \sqrt{\frac{(87)(37)}{\pi}} = 32.0$

3. Twenty-two members of the Math/Science Association met for a meeting. If every member shook hands with every other member once, calculate the number of handshakes at the meeting.

Rule :
$$\frac{n(n-1)}{2}$$
 ; $\frac{(22)(21)}{2}$ = 231 (INTEGER)

4. Find the surface area of a cube whose inner diagonal is 1.0209.

Surface area of a cube = 2(inner diagonal)²

S. A. =
$$2(1.0209)^2$$
 = 2.08

5. In a scalene triangle ABC, find a if the angle opposite a is 21° , and b = 10067 and the angle opposite b is 121° .

Make a sketch depicting the information given. This problem will require the use of the Laws of Sines.

$$\frac{SinA}{a} = \frac{SinB}{b}$$
 or $\frac{a}{SinA} = \frac{b}{SinB}$

$$\frac{x}{Sin21^{\circ}}$$
 = $\frac{10067}{Sin121^{\circ}}$; $x = \frac{10067Sin21^{\circ}}{Sin121^{\circ}}$ = 4210