

Add the following using the proper rules for significant figures:

Problem	Calculator Answer	SF Answer (w/units)
$2.3 \times 10^2 \text{ m} + 3.1 \times 10^1 \text{ m}$		
$4.55 \times 10^3 \text{ N} + 2.6 \times 10^2 \text{ N}$		
$2.3 \times 10^2 \text{ kg} + 3.1 \times 10^1 \text{ kg}$		

Subtract the following using the proper rules for significant figures:

Problem	Calculator Answer	SF Answer (w/units)
$2.3 \times 10^2 \text{ V} - 3.1 \times 10^1 \text{ V}$		
$4.55 \times 10^3 \text{ A} - 2.6 \times 10^2 \text{ A}$		
$2.3 \times 10^2 \text{ m/s} - 3.1 \times 10^1 \text{ m/s}$		

Multiply the following using the proper rules for significant figures:

Problem	Calculator Answer	SF Answer (w/units)
$(2.3 \times 10^2 \text{ m})(3.1 \times 10^1 \text{ m})$		
$(4.5 \times 10^3 \text{ m/s})(2.16 \times 10^2 \text{ s})$		
$(2.3 \times 10^2 \text{ kg})(3.1 \times 10^1 \text{ m/s}^2)$		

Divide the following using the proper rules for significant figures:

Problem	Calculator Answer	SF Answer (w/units)
$(2.03 \times 10^2 \text{ m}) / (3.11 \times 10^1 \text{ s})$		
$(4.65 \times 10^3 \text{ N}) / (2.16 \times 10^2 \text{ cm})$		
$(2.3 \times 10^2 \text{ kg}) / (3.1 \times 10^1 \text{ m}^3)$		

A satellite is located 230 km above the surface of the earth. How far is it from the center of the earth, if the radius of the earth is 6,371 km? Answer with the correct precision.

A farmer has a garden which is 20.5 meters by 8.5 meters. He also has a tarp which is 5.50 meters by 10.00 meters. If he lays the tarp over part of his garden, how much of the garden remains uncovered?