1. $$\frac{120 \text{ yards}}{1 \text{ yard}} \times \frac{36 \text{ in}}{1 \text{ in}} \times \frac{2.54 \text{ cm}}{1 \text{ cm}} \times \frac{10.5 \text{ blades}}{} = 115{,}000 \text{ blades}$$

$$\frac{53.3 \text{ yards}}{1 \text{ yard}} \times \frac{36 \text{ in}}{1 \text{ in}} \times \frac{2.54 \text{ cm}}{1 \text{ cm}} \times \frac{10.5 \text{ blades}}{} = 51{,}200 \text{ blades}$$

Area = Length x Width = 115,000 x 51,200 = 5.89×10^9 blades

2. $$\frac{2.43 \text{ miles}}{1 \text{ mile}} \times \frac{5280 \text{ feet}}{1 \text{ foot}} \times \frac{12 \text{ in}}{28 \text{ inches}} \times \frac{1 \text{ stride}}{} = 5500 \text{ steps}$$

3. $$\frac{1 \text{ Fortnight}}{1 \text{ Fortnight}} \times \frac{2 \text{ weeks}}{1 \text{ week}} \times \frac{7 \text{ days}}{1 \text{ day}} \times \frac{24 \text{ hours}}{} = 336 \text{ hours (all perfect)}$$

4. $$\frac{6.02 \times 10^{23}}{8{,}000{,}000{,}000} \times \frac{1 \text{ second}}{60 \text{ sec}} \times \frac{1 \text{ min}}{60 \text{ min}} \times \frac{1 \text{ hour}}{24 \text{ hour}} \times \frac{1 \text{ day}}{365 \text{ days}} \times \frac{1 \text{ year}}{} = 2{,}390{,}000 \text{ years}$$
or 2,000,000

5. $$\frac{58 \text{ books}}{1 \text{ book}} \times \frac{79 \text{ chapters}}{1 \text{ chapters}} \times \frac{3 \text{ pages}}{} = 10{,}000 \text{ pages}$$

6. $$\frac{30 \text{ days}}{1 \text{ day}} \times \frac{8 \text{ feedings}}{1 \text{ feeding}} \times \frac{2.5 \text{ fl oz}}{1 \text{ fl oz}} \times \frac{4.4 \text{ g pdr}}{28.4 \text{ g pdr}} \times \frac{1 \text{ oz pdr}}{22.9 \text{ oz pdr}} \times \frac{\$34.18}{} = \$100.00 \text{ or } \$140.00$$
(sig fig are tricky on this one)

7. $\dfrac{60 \text{ goats} \mid 7 \text{ sheep} \mid 2 \text{ hogs}}{\quad \mid 5 \text{ goats} \mid 4 \text{ sheep}}$ = 42 hogs (all perfect)

8. $\dfrac{6{,}000{,}000 \text{ chk} \mid 6 \text{ eggs} \mid 1 \text{ carton} \mid 1 \text{ crate} \mid 1 \text{ truck}}{\quad \mid 1 \text{ chicken} \mid 12 \text{ eggs} \mid 20 \text{ carton} \mid 3125 \text{ crate}}$ = 50 truck

9. $\dfrac{105 \text{ students} \mid 15 \text{ labs} \mid 3 \text{ minutes} \mid 1 \text{ hour}}{\quad \mid 1 \text{ student} \mid 1 \text{ lab} \mid 60 \text{ minutes}}$ = 80 hours 😢

10. $\dfrac{66 \text{ years} \mid 365 \text{ days} \mid 277 \text{ minutes} \mid 1 \text{ hours} \mid 1 \text{ day}}{\quad \mid 1 \text{ year} \mid 1 \text{ days} \mid 60 \text{ min} \mid 24 \text{ hours}}$ = 4600 day

77½ - 11½ years = 66 years

4 hours 37 min = 277 minutes

11. $\dfrac{70 \text{ HR's} \mid 4 \text{ base paths} \mid 90 \text{ feet} \mid 1 \text{ miles}}{\quad \mid 1 \text{ HR's} \mid 1 \text{ base path} \mid 5280 \text{ feet}}$ = 4.77 miles (All exact)