

For the following newborns, calculate:
 Estimated Weight Loss- expressed in expected grams to be lost AND the new weight in pounds and ounces
 Nutritional Needs for 24 hours in calories (unless otherwise stated)
 Fluid Maintenance Needs for 24 hours
 Expected Urinary Output (range)

Show your math for all calculations.

6. Newborn weight = 2330 gms
 Feeding method: Isomil every 4 hours. How many ounces should the infant take per feeding?

6.)

E.W.L

$$2330 \times .1 = 233$$

$$2330 - 233 = 2,097$$

lost - 233 gms new weight - 2,097 gms
 or
 4lb 10oz

$$2,097 \times 2.2 = 4,611.4$$

$$.61 \times 16 = 9.76 \text{ oz}$$

7. Newborn weight = 4233 gms
 Feeding method: Breastfeeding 8-12x/day.

7.)

E.W.L

$$4233 \times .1 = 423.3$$

$$4233 - 423.3 = 3,809.7$$

lost - 423.3 gms new weight - 3,810 gms
 or
 8lb 6oz

$$3,810 \times 2.2 = 8,382$$

$$.38 \times 16 = 6.08 \text{ oz}$$

8. Newborn weight = 8lbs 3oz
 Feeding method: Similac Advanced every 3 hours. How many calories should the infant take per feeding?

8.) E.W.L

$$3 \times 16 = .1875 \text{ (.19)}$$

$$8.19 \text{ lb} \times 2.2 = 3,722 \text{ Kg}$$

$$3,720 \text{ gms} \times .1 = 372$$

$$3720 - 372 = 3,348$$

lost - 372 gms new weight - 3,348 gms
 or
 7lb 6oz

$$3,348 \times 2.2 = 7,377$$

$$.37 \times 16 = 5.92$$

9. Newborn weight = 3lbs 10oz
 Feeding method: Similac NeoSure 24cal/oz q2 hours.

9.) E.W.L

$$10 \div 16 = .625 \text{ (.63)}$$

$$3.63 \text{ lb} \div 2.2 = 1.65 \text{ Kg}$$

$$1,650 \text{ gms} \times .1 = 165$$

$$1,650 - 165 = 1,485$$

lost - 165 gms new weight - 1,485 gms
 or
 3lb 4oz

$$1,485 \times 2.2 = 3,267$$

$$.27 \times 16 = 4.32$$

6.)

Nutritional Needs

$$2330$$

$$2,330 \text{ Kg}$$

$$2,140 \text{ oz/feeding}$$

$$2,330 \times 110 = 256.3 \text{ Kcal/day}$$

$$256.3 \div 20 = 12.82 \text{ oz/day}$$

$$12.82 \div 6 = 2.14 \text{ oz}$$

6.)

Fluid Maintenance

$$2,330 \text{ Kg}$$

$$2,330 \times 100 = 233$$

$$233 \text{ mL/24h}$$

6.)

Urinary Output

$$2,330 \text{ Kg}$$

$$\times 5$$

$$1.17 - 4.66 \text{ mL per hour}$$

7.) Nutritional Needs

$$4233$$

$$4,233 \text{ Kg}$$

$$465.6 \text{ kcal/day}$$

$$38.8 - 58.2 \text{ Kcal/feeding}$$

$$4,233 \times 110 = 465.6 \text{ Kcal/day}$$

$$465.6 \div 8 = 58.2 \text{ Kcal}$$

$$465.6 \div 12 = 38.8 \text{ Kcal}$$

7.) Fluid Maintenance

$$4,233 \text{ Kg}$$

$$4,233 \times 100 = 423.3$$

$$423 \text{ mL/24 hr}$$

7.) Urinary Output

$$4,233 \text{ Kg}$$

$$\times 5$$

$$2.12 - 8.47 \text{ mL/hour}$$

8.) Nutritional Needs

$$3,720$$

$$3,720 \text{ Kg}$$

$$409.2 \text{ kcal/day}$$

$$3,720 \times 110 = 409.2 \text{ kcal/day}$$

$$409.2 \div 8 = 51.15$$

$$51.15 \text{ Kcal/feeding}$$

8.) Fluid Maintenance

$$3,720 \text{ Kg}$$

$$3,720 \times 100 = 372$$

$$372 \text{ mL/24hr}$$

8.) Urinary Output

$$3,720 \text{ Kg}$$

$$\times 5$$

$$1.86 - 7.44 \text{ mL/hr}$$

9.) Nutritional Needs

$$1,650$$

$$1,650 \text{ Kg}$$

$$181.5 \text{ Kcal/day}$$

$$1,650 \times 110 = 181.5 \text{ Kcal/day}$$

$$181.5 \div 12 = 15.125 \text{ Kcal/feeding}$$

$$181.5 \div 24 = 7.5625$$

$$.63 \text{ oz/feeding}$$

$$15.125 \text{ Kcal/feeding}$$

9.) Fluid Maintenance

$$1,650 \text{ Kg}$$

$$1,650 \times 100 = 165$$

$$165 \text{ mL/24hr}$$

9.) Urinary Output

$$1,650 \text{ Kg}$$

$$\times 5$$

$$.825 - 3.3 \text{ mL/hr}$$