

Appendix C

Amount of Medication to Administer

Directions:

- Use the ratio and proportion method to complete Problems 1 and 2.
- Use the proportion method to complete Problems 3 and 4.
- Use the formula method to complete Problems 5 and 6.

Ordered Dose	Medication on Hand in Pharmacy	Show Your Work, Using Equation Editor	Amount of Medication to Administer
1. Cefazolin 1.5 gm (IV)	Cefazolin 500 mg vials	$500 \text{ mg} / 1 \text{ vial} = 1500 \text{ mg} / x$ $= x = 3 \text{ vial}$	Cefazolin 3 vial
2. Morphine 8 mg (IV)	Morphine 10 mg/mL	$10 \text{ mg} / 1 \text{ ml} = 8 \text{ mg} / x$ $= x = 8 \text{ ml}$	Morphine 8 ml (IV) 0.8 mL
3. Phenergan <sup>®</sup> 12.5 mg (IV)	Phenergan <sup>®</sup> 25 mg/2 mL	12.5 mg = (x) ml conversion factor 25 mg = 2 ml  $25 \text{ mg} / 2 \text{ ml} = 12.5 \text{ mg} / (x) \text{ ml}$  $(x) \text{ ml} = 1 \text{ ml}$	Phenergan 1 ml
4. Clindamycin 1.2g (IV)	Clindamycin 600 mg/2 mL	1200 mg = (x) ml conversion factor 600 mg = 2 ml  $600 \text{ mg} / 2 \text{ ml} = 1200 \text{ mg} / (x) \text{ ml}$  $= (x) \text{ ml} = 4 \text{ ml}$	Clindamycin 4 ml

5. Decadron <sup>®</sup> 5 mg (IV)	Decadron <sup>®</sup> 4 mg/mL	$( 5 \text{ mg} / 4 \text{ mg} ) * 1 \text{ ml} = 0.8 \text{ ml}$	Decadron 0.8 ml <b>1.25 mL</b>
6. Humulin R <sup>®</sup> insulin 35 units SC	Humulin R <sup>®</sup> insulin 100 units per mL	$( 35 \text{ units} / 100 \text{ units} ) * 1 \text{ ml} = 0.35 \text{ ml}$	Humulin R <sup>®</sup> insulin 0.35 ml

**SCORE = 55/65**