

ANSWERS

CHAPTER 7 Calculations Used in Patient Assessments—Pretest, p. 135

- | | | |
|----------------------|------------------------|--------------|
| 1. 50 kg | 7. 2.5 cups | 13. 37.1° C |
| 2. 2 cups | 8. 480 mL | 14. 105.8° F |
| 3. 79½ lb or 79.2 lb | 9. 210 mL | 15. 36.4° C |
| 4. 3 fl oz | 10. 12 fl oz | 16. 101.3° F |
| 5. 720 mL | 11. 38.6363 or 38.6 kg | 17. 8 inches |
| 6. 18 lb | 12. 45 mL | 18. 125 cm |

CHAPTER 7 Calculations Used in Patient Assessments—Work Sheet, pp. 143–146

- | | | |
|------------------|----------------------------|--------------|
| 1. 10 kg | 12. 2.7272 or 2.7 kg | 23. 55 lb |
| 2. 720 mL | 13. 12 inches | 24. 37.6° C |
| 3. 7 fl oz | 14. 2.2727 or 2.3 kg | 25. 38.8° C |
| 4. 22 lb | 15. 10 cups | 26. 104.7° F |
| 5. 58 fl oz | 16. 480 mL | 27. 98.2° F |
| 6. 15 mL | 17. 803 lb | 28. 102.6° F |
| 7. 10.5 cm | 18. 120 mL | 29. 36.9° C |
| 8. 180 mL | 19. 5454.5454 or 5454.5 kg | 30. 106.2° F |
| 9. 120 fl oz | 20. 34.0909 or 34.1 kg | 31. 39.8° C |
| 10. 1.5 cups | 21. 1440 mL | 32. 39° C |
| 11. 7.26, 7.3 lb | 22. 4.5 kg | 33. 38° C |

34.	<table border="0"> <tr> <td>Intake</td> <td>Output</td> </tr> <tr> <td>180 mL</td> <td>340 mL</td> </tr> <tr> <td>120 mL</td> <td>220 mL</td> </tr> <tr> <td>240 mL</td> <td>440 mL</td> </tr> <tr> <td>120 mL</td> <td><u>300 mL</u></td> </tr> <tr> <td>120 mL</td> <td>1300 mL</td> </tr> <tr> <td><u>240 mL</u></td> <td></td> </tr> <tr> <td>1020 mL</td> <td></td> </tr> </table>	Intake	Output	180 mL	340 mL	120 mL	220 mL	240 mL	440 mL	120 mL	<u>300 mL</u>	120 mL	1300 mL	<u>240 mL</u>		1020 mL		35.	<table border="0"> <tr> <td>125 mL × 12 h =</td> <td>1500 mL</td> <td>Intake</td> <td>Output</td> </tr> <tr> <td>=</td> <td>180 mL</td> <td>440 mL</td> <td>280 mL</td> </tr> <tr> <td>=</td> <td>120 mL</td> <td>200 mL</td> <td>200 mL</td> </tr> <tr> <td>=</td> <td>80 mL</td> <td><u>450 mL</u></td> <td>1370 mL</td> </tr> <tr> <td>=</td> <td>360 mL</td> <td></td> <td></td> </tr> <tr> <td>=</td> <td><u>240 mL</u></td> <td></td> <td></td> </tr> <tr> <td></td> <td>2480 mL</td> <td></td> <td></td> </tr> </table>	125 mL × 12 h =	1500 mL	Intake	Output	=	180 mL	440 mL	280 mL	=	120 mL	200 mL	200 mL	=	80 mL	<u>450 mL</u>	1370 mL	=	360 mL			=	<u>240 mL</u>				2480 mL		
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38.

	7-8	8-9	9-10	10-11	11-12	12-1	1-2	2-3	3-4	4-5	5-6	6-7	Total
Intake:													
Oral							120						120
IV	50	50	off	off	100	100	100	100	100	100	100	100	900
IV Meds			75	75									150
TPN	125	125	125	125	125	125	125	125	125	125	125	125	1500
Shift Total:													2670
Output:													
Urine												750	750
NG Tube												360	360
CT												80	80
Shift Total:													1190

39.

	6-7	7-8	8-9	9-10	10-11	11-12	12-1	1-2	2-3	3-4	4-5	5-6	Total
Intake:													
Oral			270				240					120	630
IV	100	100	100	100	100	125	125	125	125	off	off	125	1125
IV Meds										125	125		250
Shift Total:													2005
Output:													
Urine												1100	1100
Drains												150	150
Thora.									200				200
Shift Total:													1450

40. The total intake from 7 AM to 7 PM shift is 810 mL and the total output is 1,620 mL.

Options for 1	Options for 2
750 mL	1,380 mL
810 mL	1,500 mL
870 mL	1,620 mL

CHAPTER 7 Calculations Used in Patient Assessments—Posttest 1, pp.147–149

- | | | |
|------------------------|-------------------------------|-------------|
| 1. 90 mL | 7. 2 fl oz | 13. 40.1° C |
| 2. 360 mL | 8. 150 mL | 14. 99° F |
| 3. 3409.0909, 3409.1 g | 9. 70 $\frac{3}{8}$, 70.4 lb | 15. 37.4° C |
| 4. 510 mL | 10. 125 cm | |
| 5. 90.9090, 90.9 kg | 11. 24 inches | |
| 6. 30 fl oz | 12. 105.4° F | |

$$\begin{array}{r}
 16. \quad \text{Intake} \\
 125 \text{ mL} \\
 \times 12 \text{ h} \\
 \hline
 1500 \text{ mL}
 \end{array}$$

$$\begin{array}{r}
 \text{Output} \\
 320 \text{ mL} \\
 480 \text{ mL} \\
 \hline
 320 \text{ mL} \\
 \hline
 1120 \text{ mL}
 \end{array}$$

$$\begin{array}{r}
 17. \quad \text{Intake} \\
 180 \text{ mL} \\
 240 \text{ mL} \\
 240 \text{ mL} \\
 90 \text{ mL} \\
 120 \text{ mL} \\
 240 \text{ mL} \\
 \hline
 1110 \text{ mL}
 \end{array}$$

$$\begin{array}{r}
 \text{Output} \\
 120 \text{ mL} \\
 240 \text{ mL} \\
 260 \text{ mL} \\
 340 \text{ mL} \\
 200 \text{ mL} \\
 \hline
 1160 \text{ mL}
 \end{array}$$

$$\begin{array}{r}
 18. \\
 8 \text{ oz Pulmocare} = 240 \text{ mL} \\
 4 \text{ oz water} = 120 \text{ mL} \\
 8 \text{ oz Pulmocare} = 240 \text{ mL} \\
 4 \text{ oz water} = 120 \text{ mL} \\
 2 \text{ oz ice pop} = 60 \text{ mL} \\
 \hline
 780 \text{ mL}
 \end{array}$$

$$\begin{array}{r}
 \text{Output} \\
 800 \text{ mL}
 \end{array}$$

$$\begin{array}{r}
 19. \\
 4 \text{ oz milk} = 120 \text{ mL} \\
 1 \text{ cup coffee} = 240 \text{ mL} \\
 1 \text{ cup tea} = 240 \text{ mL} \\
 3 \text{ oz gelatin} = 90 \text{ mL} \\
 \frac{3}{4} \text{ cup broth} = 180 \text{ mL} \\
 6 \text{ oz ice cream} = 180 \text{ mL} \\
 \text{Water} = 480 \text{ mL} \\
 \hline
 1530 \text{ mL}
 \end{array}$$

20.

	7-8	8-9	9-10	10-11	11-12	12-1	1-2	2-3	3-4	4-5	5-6	6-7	Total
Intake:													
Oral			300				120					240	660
IV	75	75	75	125	125	125	off	off	125	125	125	125	1100
IV Meds							50	50					100
Shift Total:													1860
Output:													
Urine												1250	1250
Drains												200	200
Parac.											200		200
Shift Total:													1650

21.

	6-7	7-8	8-9	9-10	10-11	11-12	12-1	1-2	2-3	3-4	4-5	5-6	Total
Intake:													
Oral					180								180
IV	50	50	50	off	off	50	50	50	75	75	75	75	600
IV Med				25	25								50
TPN	80	80	80	80	80	80	80	80	80	80	80	80	960
Shift Total:													1790
Output:													
Urine												900	900
Drains												60	60
Emesis									200				200
Shift Total:													1160

CHAPTER 7 Calculations Used in Patient Assessments—Posttest 2, pp. 151–153

- | | | |
|---------------------|------------------------------|---------------------------|
| 1. 27.2727, 27.3 kg | 6. 2.64, 2.6 lb | 11. 30 cm |
| 2. 70 fl oz | 7. $92\frac{2}{3}$, 92.4 lb | 12. 36.6°C |
| 3. 9.09, 9.1 kg | 8. $15\frac{2}{3}$, 15.4 lb | 13. 104.7°F |
| 4. 840 mL | 9. 1590.909, 1590.9 g | 14. 38.2°C |
| 5. 450 mL | 10. 40 inches | 15. 39.6°C |

16.

	Intake
100 mL × 12 h =	1200 mL
	120 mL
	240 mL
	120 mL
	240 mL
	<u>450 mL</u>
	2370 mL

Output
340 mL
480 mL
<u>540 mL</u>
1360 mL

17.

Intake	Output
150 mL	260 mL
× 12 h	380 mL
<u>1800 mL</u>	160 mL
	<u>320 mL</u>
	1120 mL

18.

	Intake
6 oz Glucerna =	180 mL
3 oz water =	90 mL
6 oz Glucerna =	180 mL
3 oz water =	90 mL
6 oz Glucerna =	180 mL
3 oz water =	90 mL
4 oz ice pop =	<u>120 mL</u>
	930 mL

Output
1000 mL

19.

	Intake	Output
6 oz Pulmocare =	180 mL	600 mL
3 oz water =	90 mL	
6 oz Pulmocare =	180 mL	
3 oz water =	90 mL	
4 oz ice pop =	<u>120 mL</u>	
	660 mL	

20.

	7-8	8-9	9-10	10-11	11-12	12-1	1-2	2-3	3-4	4-5	5-6	6-7	Total
Intake:													
Oral				60									60
IV	50	off	50	75	75	75	75	75	75	75	75	75	775
IV Meds		50											50
Lipids	50	50	50	50	50	off							250
Shift Total:													1135
Output:													
Urine												820	820
Drains												80	80
Emesis							350						350
Shift Total:													1250

21.

	6-7	7-8	8-9	9-10	10-11	11-12	12-1	1-2	2-3	3-4	4-5	5-6	Total
Intake:													
Oral									240				240
IV	100	100	100	off	100	100	100	50	50	50	50	50	850
IV Med				50									50
TPN	75	75	75	75	75	75	75	75	75	75	75	75	900
Shift Total:													2040
Output:													
Urine												750	750
NG Tube												240	240
CT												120	120
Shift Total:													1110