

ANSWERS TO HANDBOOK PROBLEMS

In addition to the answers, we have provided a difficulty rating for each problem. Our scale is 1-7, with 7 being the most difficult. These are only approximations, and how difficult a problem is for a particular student will vary. Below is a general guide to the ratings:

Difficulty 1, 2 and 3 - One concept; one- to two-step solution; appropriate for students just starting the middle-school curriculum.

4 and 5 - One/two concepts; multi-step solution; knowledge of some middle-school topics is necessary.

6 and 7 - Multiple and/or advanced concepts; multi-step solution; knowledge of advanced middle-school topics and/or problem-solving strategies is necessary.

Warm-Up 7

Answers	Difficulty				
1. 33.65	(2)	5. 2.38	(3)	8. $\frac{651}{676}$	(4)
2. 17	(3)	6. 64	(3)	9. 3	(4)
3. 6	(3)	7. 20 or 20.00	(4)	10. 150	(4)
4. 957	(3)				

Warm-Up 8

Answers	Difficulty				
1. 60	(2)	5. 55	(3)	8. 36	(5)
2. 12	(3)	6. 14	(5)	9. 6:00	(4)
3. 50	(3)	7. 240	(4)	10. $\frac{1}{3}$	(5)
4. 6	(2)				

Workout 4

Answers	Difficulty				
1. 240 or 240.00	(3)	5. 14	(5)	8. 45	(4)
2. 7	(3)	6. 90	(4)	9. 120	(5)
3. 52	(4)	7. 1.24	(5)	10. (4, -4)	(5)
4. 30	(4)				

Warm-Up 9

Answers	Difficulty				
1. 6	(3)	5. $4 - \pi$	(4)	8. 108	(5)
2. $\frac{1}{2}$	(3)	6. 11	(5)	9. $\sqrt{69}$	(5)
3. 10	(4)	7. $\frac{4}{7}$	(4)	10. 10	(6)
4. 3	(3)				