

ANSWERS TO HANDBOOK & WHAT ABOUT MATH? 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 1

Answers	Difficulty		Difficulty		Difficulty
1. 16	(2)	5. 8	(4)	8. $\frac{1}{2}$	(4)
2. 280	(1)	6. 2.5	(2)	9. 21	(3)
3. 50	(3)	7. 5	(2)	10. 45π	(5)
4. Adam	(2)				

Warm-Up 2

Answers	Difficulty		Difficulty		Difficulty
1. 4	(3)	5. 24	(3)	8. 0	(4)
2. 8	(2)	6. 7	(2)	9. 59	(4)
3. 29	(2)	7. 3	(3)	10. 15	(5)
4. 140	(3)				

Workout 1

Answers	Difficulty		Difficulty		Difficulty
1. 4	(2)	5. 53,460	(3)	8. 10,597	(5)
2. 1600 or 1600.00	(3)	6. 79	(4)	9. 24	(4)
3. (3, 8)	(3)	7. 340 or 340.00	(3)	10. 1440	(4)
4. 3	(3)				

Warm-Up 3

Answers	Difficulty		Difficulty		Difficulty
1. 31	(2)	5. 8	(3)	8. 5	(3)
2. 23	(4)	6. 62.5	(3)	9. 27	(5)
3. 2	(2)	7. 100	(2)	10. $10\frac{2}{7}$	(5)
4. 6	(3)				