NAME	DATE	TIME	Lesson 9-8
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## Unit 9 Open Response Assessment

Factor Patterns

 Explore what happens to the product when you double a factor. For example, multiply 4 × 5. Then double the 4 and multiply 8 × 5. Then begin with 4 × 5 again, double the 5, and multiply 4 × 10. Show your work.

2 Try doubling one of the factors in other multiplication facts. Show your work. Describe a pattern that you see when you double a factor.

3 Based on your work with doubling factors, predict what will happen when you triple a factor. Explain how you would convince someone that your prediction will always work for any multiplication fact.