Practice worksheet | Factors and multiples

Factor/divisibility algorithms

Name: _____ Date: _____

6 questions | 13 marks

1. Use a factor-pair procedure to find all factor pairs of 16. [2 marks]

2. For a target of 28, what is the largest candidate tested using the square stopping rule? [2 marks]

3. A learner records 1×24, 2×12 and 4×6, but misses one pair. Which candidate was skipped? [2 marks]

4. Follow the two-decision test for six on the number 123. State where the procedure stops. [2 marks]

5. Test the procedure on 25. Explain why 5×5 appears once rather than twice. [2 marks]

6. Design a short decision rule for divisibility by 10, then use it on 240 and 245. [3 marks]