Finding multiples

6 questions | 10 marks

Equivalent correct methods earn the corresponding marks.

1. Write the first four positive multiples of 9. [1 mark]

Multiply nine by one, two, three and four.

Answer: 9, 18, 27, 36.

2. Write the next two numbers: 5, 10, 15, 20, __, __. [1 mark]

Add five at each step.

Answer: 25, 30.

3. Is 54 a multiple of 6? Give a multiplication fact. [1 mark]

A whole number of groups of six makes fifty-four.

Answer: Yes: $6 \times 9 = 54$.

4. List all positive multiples of 8 that are less than 40. [2 marks]

The next multiple is forty, but it is not less than forty.

Answer: 8, 16, 24, 32.

5. Find the positive common multiples of 3 and 4 that are at most 30. [2 marks]

Multiples of four are 4, 8, 12, 16, 20, 24, 28.

Twelve and twenty-four are also multiples of three.

Answer: 12 and 24.

6. A teacher needs the same number of pencils packed in groups of five or groups of six, with none left over. What is the smallest possible positive total? [3 marks]

List multiples of five and six.

Thirty is the first positive total shared by the lists.

Answer: 30 pencils.