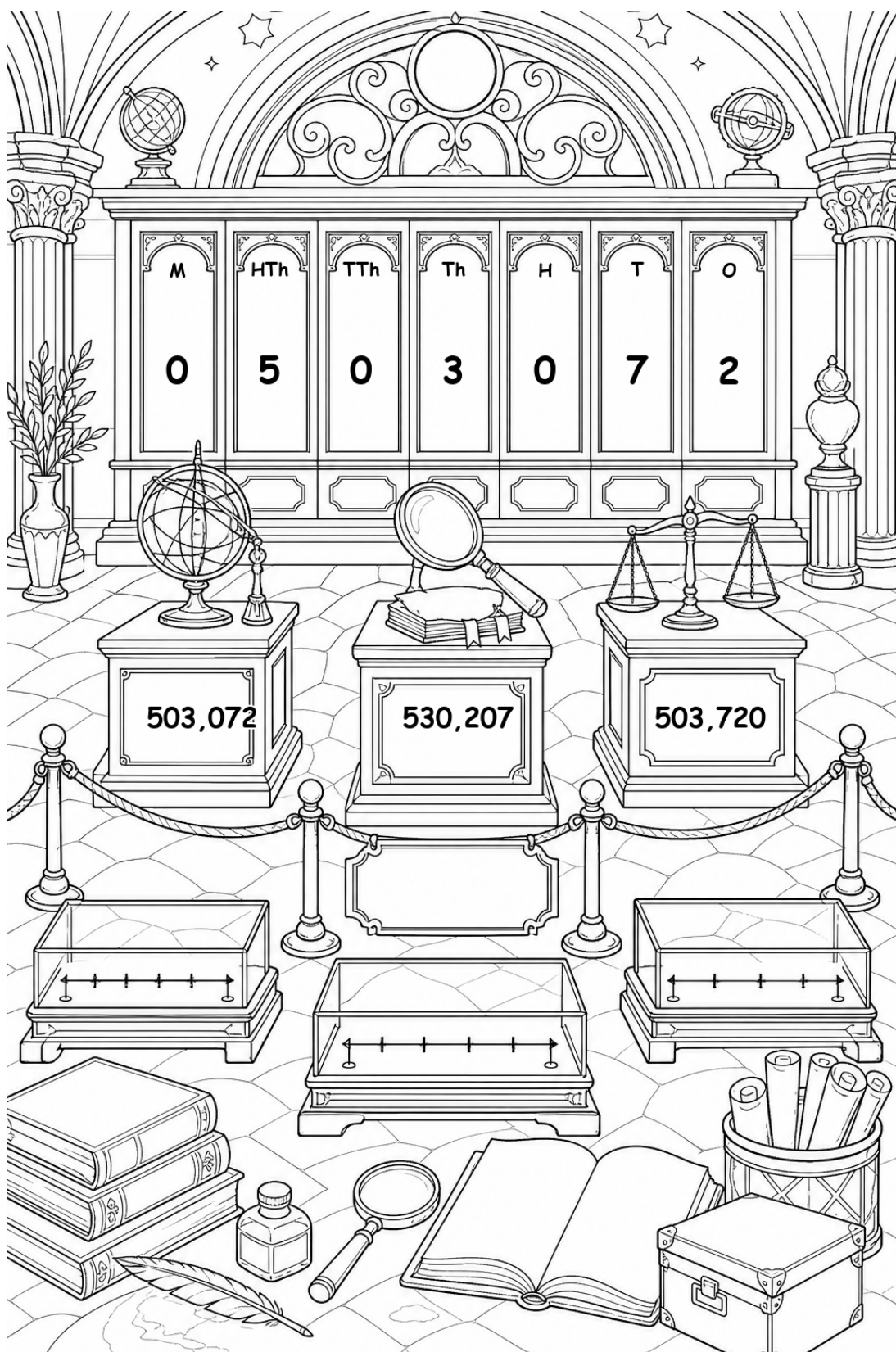


Million Museum Place-Value Challenge

KS2 / Year 5 - Mathematics

Use the exhibits to order 503,072, 530,207 and 503,720; identify the value of the digit 3 in each number; then round each number to the nearest 10,000.



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Parent & Teacher Guidance

Curriculum focus

Topic: Place value. Develop accurate observation, subject vocabulary and evidence-based explanation. Mapped scope: Year 5 Mathematics number and place value: read, write, order and compare numbers to at least 1,000,000; determine digit value; and round within 1,000,000..

Before you begin

Review the picture together and ask the learner what they already notice about Place value. Read the activity aloud, explain unfamiliar vocabulary, and agree which details need special attention.

Solo activity

The learner can complete the colouring independently, then use the finished page to explain three details linked to Place value. Encourage accurate colour choices where they carry meaning, but allow creative choices elsewhere.

Group activity

Give pairs or small groups different areas to inspect. Ask them to agree on evidence before colouring, compare their findings, and present one curriculum fact to the class. Finish with a whole-group check against the guidance below.

Questions to guide discussion

What evidence can you see? Which feature is most important and why? How does one part connect to another? What new fact about Place value can you explain using the picture?

Answers and checking

Ascending order: 503,072; 503,720; 530,207. Value of digit 3: 3,000 in 503,072; 30,000 in 530,207; 3,000 in 503,720. Nearest 10,000: 500,000; 530,000; 500,000 respectively. Comparison is decided at the first place where the digits differ.

Learning record and next steps

☐ Completed the colouring

☐ Explained key vocabulary

☐ Completed the activity

☐ Used visible evidence

Evidence noticed / vocabulary used

Next step:
