Year 4 Mathematics

Core numeracy, fractions, measurement and reasoning

Student: _____ Date: _____

Suggested time: 35–45 minutes. Show your thinking. You may ask an adult to read instructions, but try the questions independently.

Number sense and operations

1. Write 4,708 in expanded form. What is the value of the digit 7?

2. A library has 1,248 books. It receives 375 more and lends out 289. How many books remain? Show your method.

3. Calculate 36 × 7. Explain how you checked your answer.

4. There are 156 stickers shared equally among 6 classes. How many does each class receive?

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Fractions and measurement

1. Which is larger: 3/4 or 5/8? Explain using a drawing or common denominator.

2. A ribbon is 2 m 35 cm long. You cut off 85 cm. How much remains in centimetres?

3. A rectangle is 9 cm long and 4 cm wide. Find its perimeter and area. Explain the difference.

Reasoning and data

1. A train leaves at 09:45 and arrives at 11:20. How long is the journey?

2. A shop sells pencils in packs of 8. Maya needs at least 50 pencils. How many packs must she buy? Explain.

3. The numbers of books read by four children are 6, 9, 4 and 11. Find the total and the difference between the highest and lowest.

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How to use this assessment

Allow a quiet, relaxed sitting with breaks. Avoid giving the answer. Record whether responses were independent, prompted, or supported. This is a learning snapshot, not a fixed ability label.

Suggested answers and reasoning

1. 4,000 + 700 + 8; digit 7 = 700. 2. 1,334 books. 3. 252; acceptable checks include 30 × 7 + 6 × 7 or inverse division. 4. 26.

5. 3/4 = 6/8, so 3/4 is larger. 6. 150 cm. 7. Perimeter = 26 cm; area = 36 cm^2.

8. 1 hour 35 minutes. 9. 7 packs (56 pencils). 10. Total 30; difference 7.

What to observe

Does the child choose operations independently, show place-value understanding and use units correctly?

Ask: “Can you show another way?” and “How do you know your answer is reasonable?”

Next teaching steps

If errors are procedural, practise inverse operations and checking. If concepts are unclear, revisit visual fractions, arrays and measurement models.

Observation notes

Strengths: _____

Next steps: _____

Student explanations or questions worth revisiting: _____

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