Approximation of Numerical Solutions Involving Rational Numbers and Percentages Pre-Test

* Indicates required question

Word Problem

a) 5 friends go out to dinner and spend a total of $504. Approximately how much will each friend pay if they split the bill evenly? *

Which shows the correct working out?

A.
| Step 1: | $504 is approximately $500 |
| Step 2: | $500 ÷ 5 = $100 for each friend |

B.
| Step 1: | $504 is approximately $510 |
| Step 2: | $510 ÷ 5 = $102 for each friend |

C.
| Step 1: | $504 is approximately $600 |
| Step 2: | $600 ÷ 5 = $120 for each friend |

D.
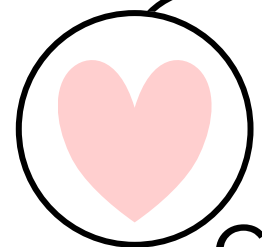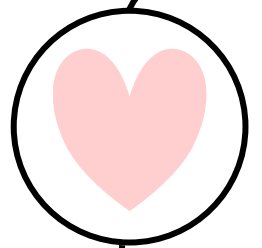| Step 1: | $504 is approximately $1000 |

WHY JUGGLE TESTS WHEN ONE MEGA DIGITAL BUNDLE HAS ALL YOUR YEAR 6 MATHS SORTED?
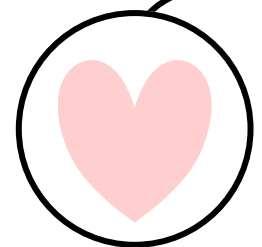
All three strands sorted – no more hunting for extra tests!

Curriculum-aligned (V9.0) so you can plan and report with confidence

Reporting & planning support with ready-to-use results

YEAR 6
DIGITAL MATHEMATICS TEST
MEGA BUNDLE

YEAR 6
NUMBER & ALGEBRA
DIGITAL TEST PACK

YEAR 6
MEASUREMENT & SPACE
DIGITAL TEST PACK

YEAR 6
STATISTICS & PROBABILITY
DIGITAL TEST PACK

48 DIGITAL TESTS

INCLUDES ALL THESE AND MORE!

NUMBER OUTCOMES

Outcome	Descriptor	Pre Test	Post Test
AC9M6N01	Recognise situations, including financial contexts, that use integers; locate and represent integers on a number line and as coordinates on the Cartesian plane	https://docs.google.com/forms/... /copy	https://docs.google.com/forms/... /copy
AC9M6N02	identify and describe the properties of prime, composite and square numbers and use these properties to solve problems and simplify calculations	https://docs.google.com/forms/... /copy	https://docs.google.com/forms/... /copy
AC9M6N03	apply knowledge of equivalence to compare, order and represent common fractions including halves, thirds and quarters on the same number line and justify their order	https://docs.google.com/forms/... /copy	https://docs.google.com/forms/... /copy
AC9M6N04	apply knowledge of place value to add and subtract decimals, using digital tools where appropriate; use estimation and rounding to check the reasonableness of answers	https://docs.google.com/forms/... /copy	https://docs.google.com/forms/... /copy
AC9M6N05	solve problems involving addition and subtraction of fractions using knowledge of equivalent fractions		

MEASUREMENT OUTCOMES

Outcome	Descriptor	Pre Test	Post Test
AC9M6M01	Convert between common metric units of length, mass and capacity; choose and use decimal representations of metric measurements relevant to the context of a problem	https://docs.google.com/forms/... /copy	https://docs.google.com/forms/... /copy
AC9M6M02	Establish the formula for the area of a rectangle and use it to solve practical problems	https://docs.google.com/forms/... /copy	https://docs.google.com/forms/... /copy
AC9M6M03	Interpret and use timetables and itineraries to plan activities and determine the duration of events and journeys	https://docs.google.com/forms/... /copy	https://docs.google.com/forms/... /copy
AC9M6M04	Identify the relationships between angles on a straight line, angles at a point and vertically opposite angles; use these to determine unknown angles, communicating reasoning	https://docs.google.com/forms/... /copy	https://docs.google.com/forms/... /copy

STATISTICS OUTCOMES

Outcome	Descriptor	Pre Test	Post Test
AC9M6ST01	Interpret and compare data sets for ordinal and nominal categorical, discrete and continuous numerical variables using comparative displays or visualisations and digital tools; compare distributions in terms of mode, range and shape	https://docs.google.com/forms/... /copy	https://docs.google.com/forms/... /copy
AC9M6ST02	Identify statistically informed arguments presented in traditional and digital media; discuss and critique methods, data representations and conclusions	https://docs.google.com/forms/... /copy	https://docs.google.com/forms/... /copy
AC9M6ST03	Plan and conduct statistical investigations by posing and refining questions or identifying a problem and collecting relevant data; analyse and interpret the data and communicate findings within the context of the investigation	https://docs.google.com/forms/... /copy	https://docs.google.com/forms/... /copy

ALGEBRA OUTCOMES

Outcome	Descriptor	Pre Test	Post Test
AC9M6A01	recognise and use rules that generate visually growing patterns and number patterns involving rational numbers	https://docs.google.com/forms/... /copy	https://docs.google.com/forms/... /copy
AC9M6A02	find unknown values in numerical equations involving brackets and combinations of arithmetic operations, using the properties of numbers and operations	https://docs.google.com/forms/... /copy	https://docs.google.com/forms/... /copy
AC9M6A03	create and use algorithms involving a sequence of steps and decisions that use rules to generate sets of numbers; identify, interpret and explain emerging patterns	https://docs.google.com/forms/... /copy	https://docs.google.com/forms/... /copy

SPACE OUTCOMES

Outcome	Descriptor	Pre Test	Post Test
AC9M6SP01	Compare the parallel cross-sections of objects and recognise their relationships to right prisms	https://docs.google.com/forms/... /copy	https://docs.google.com/forms/... /copy
AC9M6SP02	Locate points in the 4 quadrants of a Cartesian plane; describe changes to the coordinates when a point is moved to a different position in the plane	https://docs.google.com/forms/... /copy	https://docs.google.com/forms/... /copy
AC9M6SP03	Recognise and use combinations of transformations to create tessellations and other geometric patterns, using dynamic geometric software where appropriate	https://docs.google.com/forms/... /copy	https://docs.google.com/forms/... /copy

PROBABILITY OUTCOMES

Outcome	Descriptor	Pre Test	Post Test
AC9M6P01	Recognise that probabilities lie on numerical scales of 0 – 1 or 0% – 100% and use estimation to assign probabilities that events occur in a given context, using common fractions, percentages and decimals	https://docs.google.com/forms/... /copy	https://docs.google.com/forms/... /copy
AC9M6P02	Conduct repeated chance experiments and run simulations with an increasing number of trials using digital tools; compare observations with expected results and discuss the effect on variation of increasing the number of trials	https://docs.google.com/forms/... /copy	https://docs.google.com/forms/... /copy

THE SYDNEY TEACHER

CONTENTS

What's included in this pack?
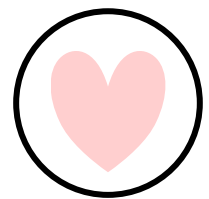
♥ **48 Digital Pre- & Post-Assessments for all 3 strands inYear 6**

- Number & Algebra
- Measurement & Space
- Statistics & Probability

CONTENTS

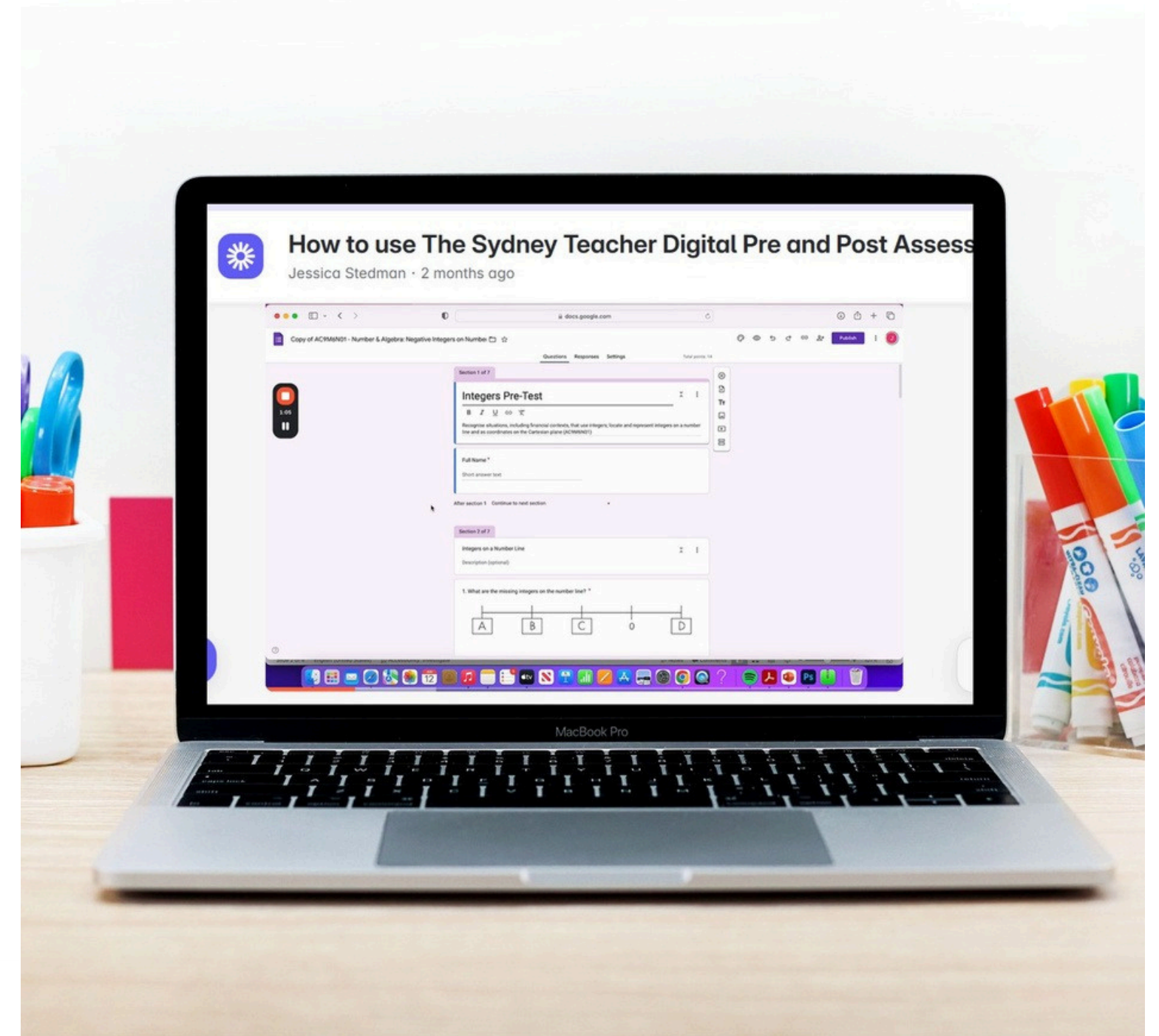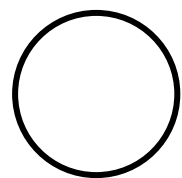## What's included in this pack?

♥ **Curriculum-Aligned Test Packs** (Australian Curriculum V9.0)

♥ **Step-by-step video guide** to using the tests

HOW DOES IT WORK?

① Getting Started

- Log into your Google account
- Open the test link and click "Make a copy"
- The Form saves to your Drive
- Edit as needed

② Sharing the Test

- Click on the link icon
- Tick the 'Shorten the URL' box
- Copy the link
- Provide the link to students

③ Results

- Students click 'View Accuracy' to see results;
- Teachers use the 'Responses' tab or link to Sheets for data analysis
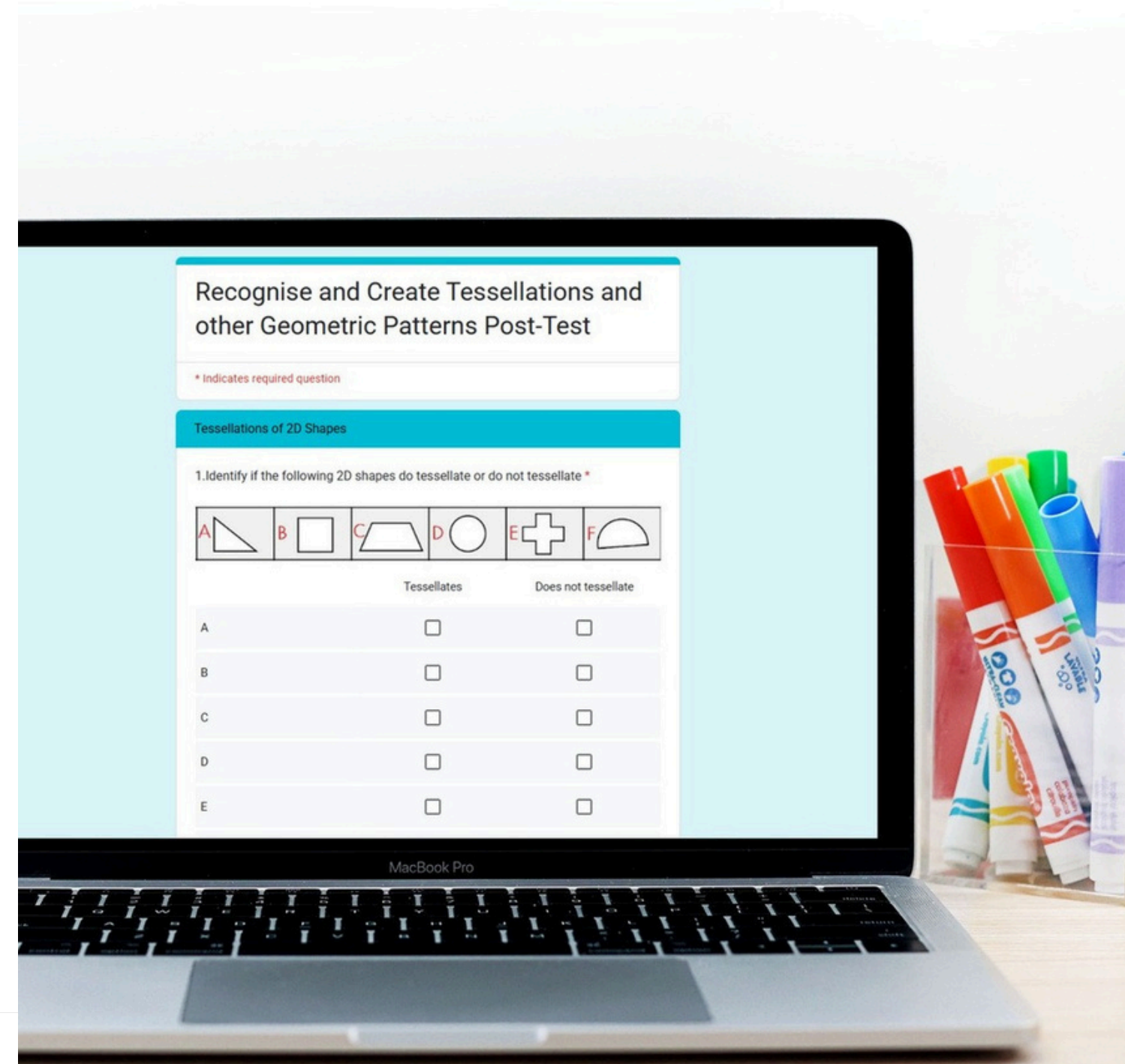
HOW YOU CAN USE THIS RESOURCE

♥ Use the tests as **pre- and post-assessments** to track student growth

♥ **Plan your lessons and group students** based on assessment results

♥ **Generate clear data** to support end-of-semester reporting

THE SYDNEY TEACHER

LOOKING FOR MORE?

★★★★★

Get it all with the **Year 6 Year-Long Maths Activity and Test MEGA Bundle**: digital tests, paper tests, and six print-and-go activities for every outcome in the Australian Curriculum (V9.0).

YEAR 6 YEAR LONG

MATHS ACTIVITY & TEST MEGA BUNDLE

YEAR 6
MATHEMATICS TEST
MEGA BUNDLE

YEAR 6
NUMBER & ALGEBRA
TEST PACK

STATISTICS & PROBABILITY
TEST PACK

YEAR 6
DIGITAL MATHEMATICS TEST
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ACTIVITY BUNDLE

STATISTICS & PROBABILITY
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240 RESOURCES IN TOTAL!