



Mastery Checkpoints Workbooks

sample pages
May 2018

www.pearsonprimary.co.uk/abacus

As part of your Abacus online subscription, you have access to Mastery Checkpoints screens. These are short activities for teachers to display on an interactive whiteboard and use as a quick 'check' to see whether children have mastered a key concept straight after it has been taught.

abacus Mastery Checkpoint

Have you mastered solving word problems involving measures?

Facts about twins Jakub and Lena

	Weight	Height	Time to run 100 m	Long jump
Jakub	31.6 kg	1.35 m	15.2 s	3.25 m
Lena	29.7 kg	1.27 m	14.6 s	3.19 m

a) What is the difference in height between Jakub and Lena?
 b) What is their total weight?
 c) Who is the faster runner? What is the difference between Lena and Jakub's times?
 d) Lena's arm span is 5 cm less than her height. What is her arm span?

e) What is the difference between their best long jump distances in centimetres?
 f) Lena can run 200 m in twice Jakub's time for 100 m. What is her time for 200 m?

Champions' Challenge

- Jakub's arm span is half of Jakub and Lena's total height. What is his arm span?
- Jakub and Lena have raised £25.75 in total in a sponsored times-table challenge. Lena raised 75p more than her brother. How much did Jakub raise?

Current on-screen version of Y5 Checkpoint 13

We have had requests from Abacus schools to also provide the Mastery Checkpoints in a workbook format, with space for children to make notes, write their answers and show their workings.

YEAR 5 SAMPLE PAGES

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What is the difference between Lena and Jakub's times?

Y5 Checkpoint 13

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I found this:
 😊 Easy 🤔 Challenging 🙋 I needed help

NEW Y5 Checkpoint 13 workbook spread

The six Mastery Checkpoints Workbooks will be arriving in Autumn 2018:

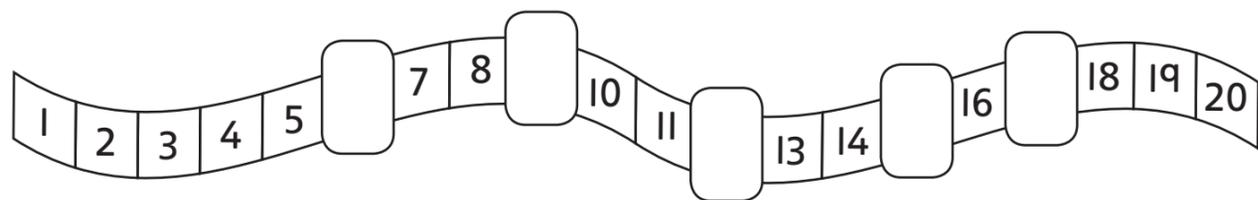
- Years 5 and 6: early October
- Years 3 and 4: early November
- Years 1 and 2: early December

Have you mastered...?

finding one more and one less

A 1–20 number track has been torn into pieces.

- a) Write the numbers that are missing between the pieces.



- b) Write a number that is more than 10 and less than 20.

- c) Write the number one more than your number.

Write the number one less.



Champions' Challenge

Say whether each statement is true or not.

- 1) The number one more than a number is always bigger than that number.

- 2) One less than a number ending in 0, must end in 9.

- 3) One more than one more than 6 is one less than 8.

- 4) One more than one less than 10 is 10.

I found this:



Easy



Challenging



I needed help

Have you mastered...?

solving problems with fractions

a) Find these fractions:

$\frac{3}{4}$ of 24

$\frac{5}{6}$ of 18

$\frac{2}{3}$ of 39

$\frac{3}{5}$ of 150

b) Peter missed the lesson on solving problems. How would you help him solve this problem?

Ahmed collected 25 conkers. He gave $\frac{2}{5}$ of the conkers to his brother. How many conkers has he got left?

What is the answer to the problem?

c) If $\frac{3}{4}$ of a number is 15, what is the number?



Champions' Challenge

1) $\frac{2}{3}$ of a number is 16. What is the number?

Is $\frac{3}{4}$ of that number more or less than $\frac{2}{3}$ of it?

2) Maya has £100. She spends $\frac{2}{5}$ of her money on a computer game. She then spends $\frac{3}{4}$ of the remaining money on a present for her sister. How much does she now have left?

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Have you mastered...?

using formulae and describing sequences

a) Find the two numbers before and the two numbers after these numbers to complete each of the sequences. What is the rule in each case?

37 48 59

Rule: _____

75 68 61

Rule: _____

b) Peter starts at 31, counting on 6 each time.

How many 6s does he count before he goes over 100?

What if he counted in steps of 9?



Champions' Challenge

1) A rule for a sequence is given as $2n - 3$, where n represents a whole number. Kaya says that all the numbers in the sequence will be odd.

Is she right or wrong? How can you explain this?

2) Find a rule for a sequence that will always give even numbers.

3) Find a rule for a sequence that will give alternate odd and even numbers.

I found this:

Easy Challenging I needed help

Date: _____

Explaining my learning

Imagine your favourite celebrity is making a television programme about maths. As part of their research, they come to your classroom.

They have no idea what you have been learning about. How would you explain your maths work to them?

Date: _____

Making connections

Many of the different areas of maths overlap with each other. For example, if you are converting 160cm to metres, this involves your skills and knowledge in measurements, decimals, division and place value.

What connections have you spotted between areas of maths? What did you notice about them?

My Mastery

Colour a circle for each skill to show how you feel about it now.

Mastery Checkpoint	Have you mastered...?	More help!	I think I'm OK	I'm the master!	Date
Checkpoint 1 pages 4-5	Place value in 4-digit numbers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Checkpoint 2 pages 6-7	Times-tables facts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Checkpoint 3 pages 8-9	Finding fractions of amounts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Checkpoint 4 pages 10-11	Telling the time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Checkpoint 5 pages 12-13	Doubling and halving 3-digit numbers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Checkpoint 6 pages 14-15	Adding 3-digit numbers in columns	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Checkpoint 7 pages 16-17	Finding tenths	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

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Checkpoint 8 pages 18-19	Converting measures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Checkpoint 9 pages 20-21	Counting up to solve subtraction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Checkpoint 10 pages 22-23	Multiplying with a grid	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Checkpoint 11 pages 24-25	Rounding 3 and 4-digit numbers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Checkpoint 12 pages 26-27	Adding and subtracting multiples of 1, 10 and 100	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Checkpoint 13 pages 28-29	Solving problems with fractions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	