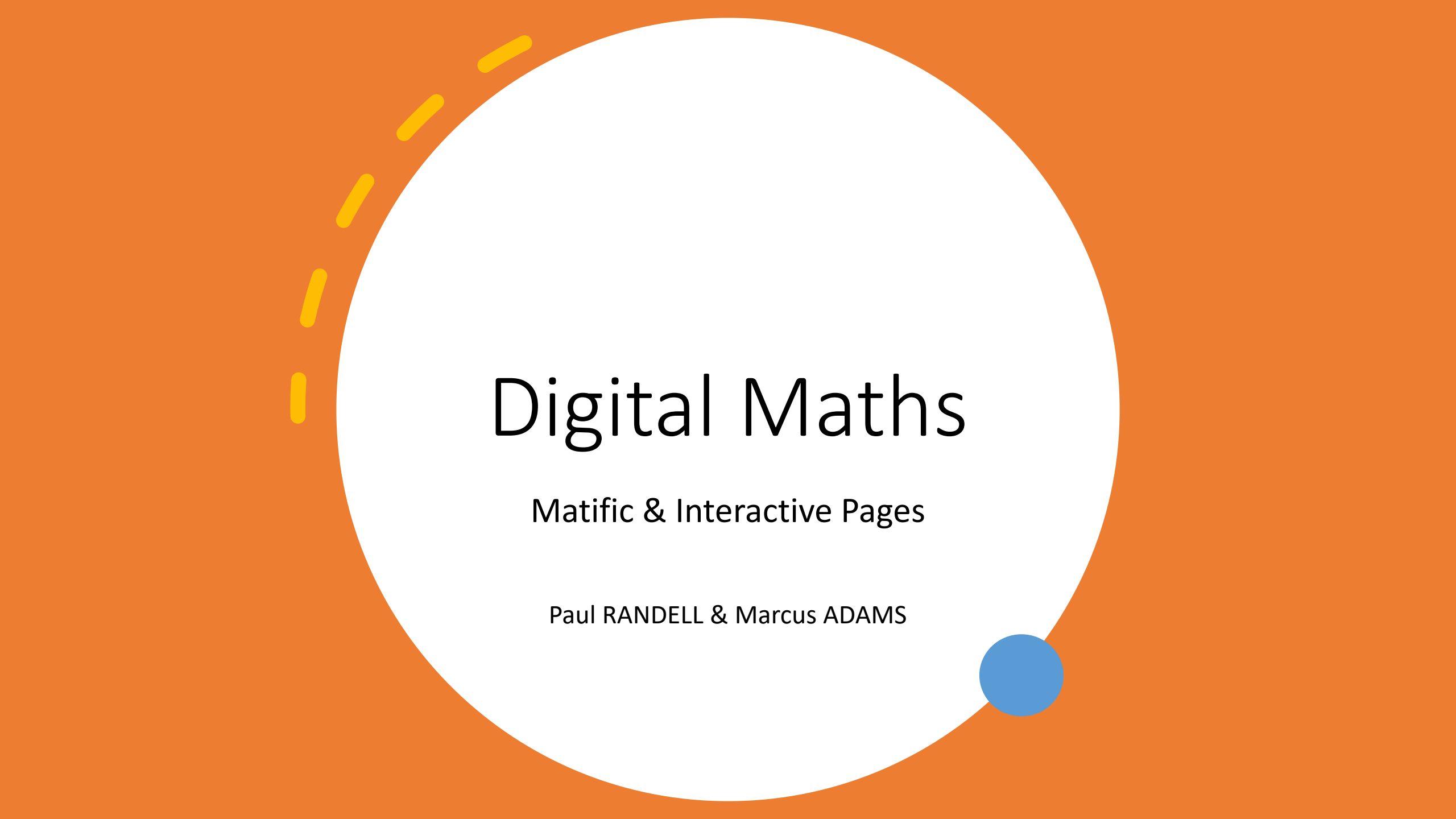




Digital Maths

Matific & Interactive Pages

Paul RANDELL & Marcus ADAMS

Outline

- Digital Competence in Maths Syllabus
- Matific – Assigning Related Tasks
- Matific – Whole Class Usage, Partner Work, Small Group
- Matific – Interpreting the Data
- Interactive Pages – Review, Differentiation, Extension



Maths Syllabus – Use of Digital Tools

"The use of technology and digital tools plays an important role in mathematics, which is reflected in this syllabus. The pupils should get the opportunity to work and solve problems with different tools or software that are available in the respective schools. Technology and digital tools should be used to support and promote pupils' understanding."

- Every school will have different equipment (e.g. computer rooms, laptops, tablet trolley, etc.) and we want to use them effectively to develop the Digital Competence. What is the situation at your school?

Matific – Assigning Related Activities

Adventure Island



- Students complete activities in a progression
- Activities may or may not be related to in-class objectives
- Matific automatically adjusts difficulty based on a student's results (e.g. P4 student may start receiving P3 activities)

Assigned Work



- Students only complete activities assigned by the teacher (or parent)
- Teachers can ensure activities are related to in-class learning
- Teacher can create groups for differentiation

Matific – Whole Class Usage

- Used on Smart Board in classroom:
 - As introduction to learning objective
 - As consolidation of learning
 - As transition activity between subjects



Matific – Whole Class Usage

- Used in ICT/Computer Room:
 - For problem solving activities
 - Student whiteboards to show methods used
 - For Formative Assessment using "Live Classroom" feature
 - For consolidation of learning at end of a unit





Matific – Partner Work

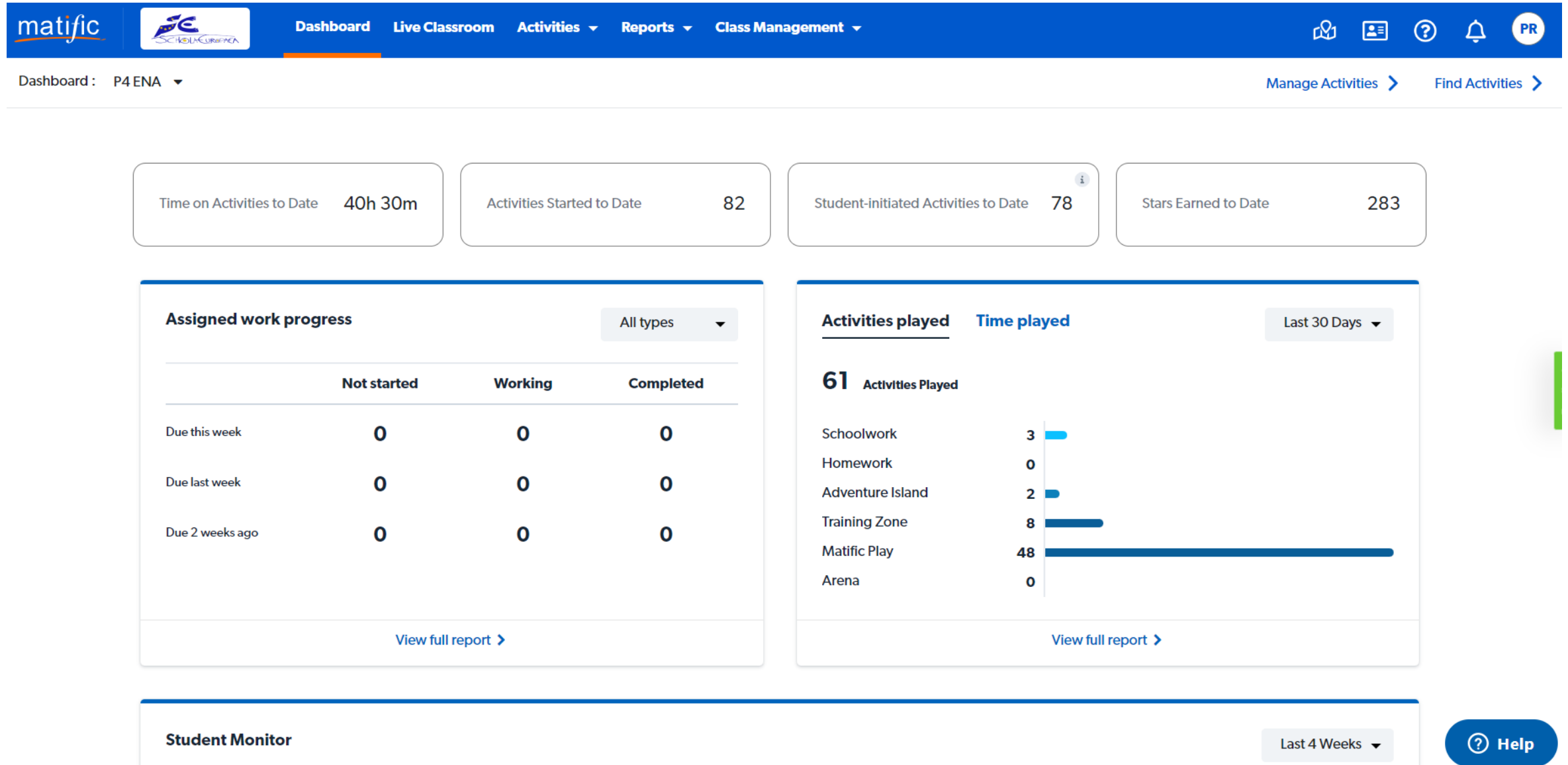
- Building confidence with mixed ability partners
- Promote communication and cooperation between classmates

Matific – Small Group

- Targeted support
- Extension activities for group of higher ability students



Matific – Interpreting the Data



Where to find Interactive Pages



- All the pages of the Interactive material are language free.
- **Guides** of how to use the pages can be found within each portfolio and also in the Teachers Handbooks on the page that the activity is linked to.
All the Guides will eventually be available in EN, FR & DE
- **Download the latest updates**

[Key Symbols - EN / FR](#) - October 2019

[P1 Numbers Portfolio](#) - August 2019

[P1 Calculation Portfolio](#) - August 2019

[P2 Numbers Portfolio](#) - August 2019

[P2 Calculation Portfolio](#) - August 2019

[P3 Numbers Portfolio](#) - October 2019

[P3 Calculation Portfolio](#) - October 2019

[P3 Fractions Portfolio](#) - August 2019

[P4 Numbers Portfolio](#) - October 2019

[P4 Calculations and Fractions](#) - June 2020

[P5 STAR Interactive Intermath](#) - Februari 2021

- Intermath.eu
 - Username: teacher
 - Password: esIM#2223
- *Interactive Intermath* tab
- Download PDFs and open in Adobe Acrobat/Reader only
(it will not work when opened in Chrome, Firefox, etc. due to Javascript coding in PDFs)

Interactive Pages – On Smart Board

- Assisting teachers by scaffolding the learning (Model -> Sharing -> Independent)
- Teaching Pages are designed to be displayed on Smart Boards

Bridging

1 Emily scored 570 points in the basketball season. Sam scored 50. How many points did they score altogether?

$570 + 50 = \dots$

570

Maisy scored 240 points in a season and Martha scored 70. What is the difference between their scores?

$240 - 70 = \dots$

240

2 $360 + 50 = \dots$

360

$580 + 90 = \dots$

580

$350 - 80 = \dots$

350

$630 - 60 = \dots$

630

[illegible]

Interactive Pages – Worksheets/Homework

1

... X ... = ...

... X ... = ...

... X ... = ...

... X ... = ...

... X ... = ...

2

8 x 9 = ... 8 x 4 = ... 8 x 1 = ... 8 x 2 = ...

... x 8 = x 8 = x 8 = x 8 = ...

7 x 7 = ... 7 x 6 = ... 7 x 8 = ... 5 x 7 = ...

... x 7 = x ... = x ... = x ... = ...

4 x 3 = ... 4 x 9 = ... 2 x 4 = ... 4 x 7 = ...

... x 4 = x ... = x ... = x ... = ...

8 x 8 = ... 4 x 7 = ... 4 x 4 = ... 7 x 8 = ...

8 x ... = x ... = x ... = x ... = ...

7 x 9 = ... 8 x 5 = ... 4 x 8 = ... 6 x 8 = ...

... x ... = x ... = x ... = x ... = ...

8 x 3 = ... 1 x 4 = ... 4 x 7 = ... 4 x 2 = ...

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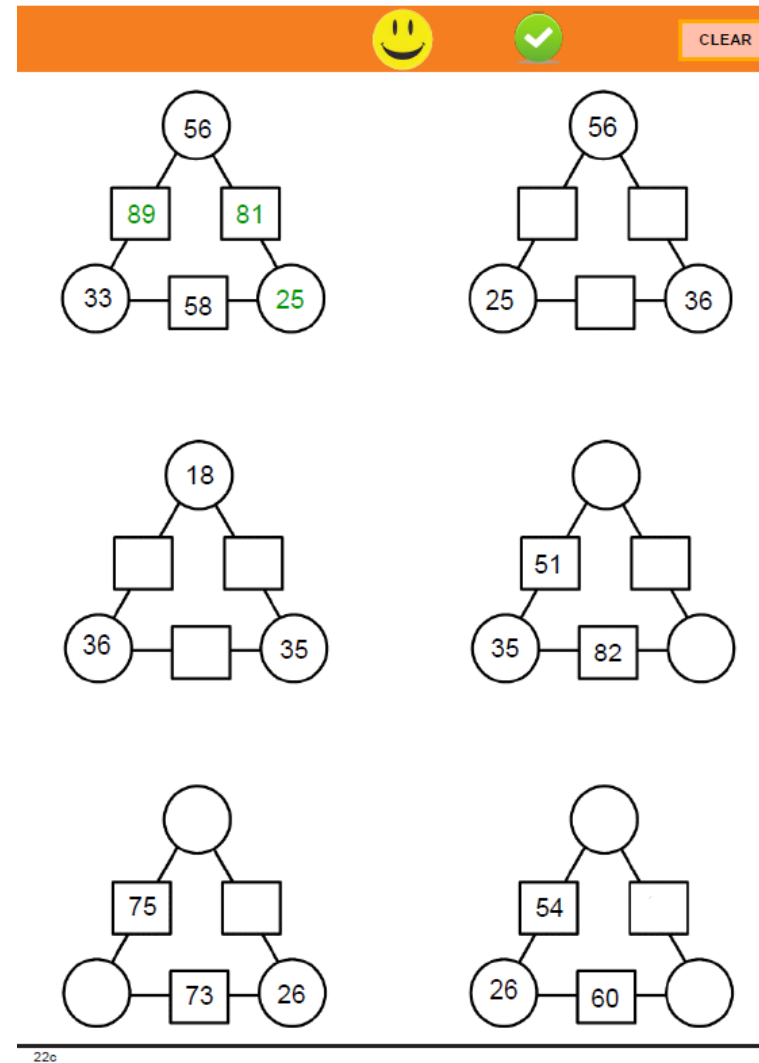
55 b

Special needs, revision,
differentiation



Interactive Pages – Extension/Challenges

- Challenge Pages (or challenge smileys on Worksheets) offer extension work linked to specific pages from the Intermath textbook
- They can be printed out (to be filled in by hand) or displayed on the Smart Board for students to complete on their whiteboards



Thank you for listening!



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