A. . . . A

A -- •/• • -- -

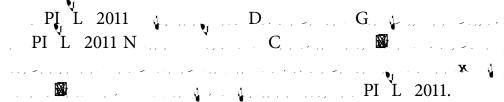
Acknowledgements

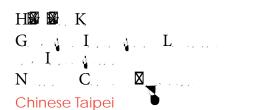
PI L ... IEA, ... IEA, ... IM , -. <u>,</u> , , <u>\text{\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinit}\\ \text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\texit{\texi{\tex{\texi{\texi{\texi{\texi{\texi{\texi\tin}\\ \titti}\\ \tinttet{\tinithter{\text{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\</u> $2011 \dots m \dots m$.

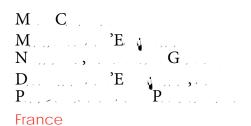
PIRLS 2011 Framework Development at the TIMSS & PIRLS International Study Center at Boston College

PIRLS 2011 Reading Development Group					
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, , , , , Z ., X >, , , , , , \ , , ,					

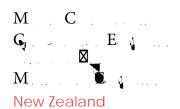
PIRLS 2011 Questionnaire Development Group



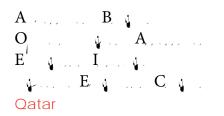


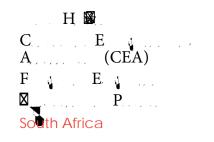














Canada

Alberta

- P
- $L_{\text{\tiny A}} = L_{\text{\tiny A}} = L_{\text$
- A_{c} . . . E_{c} \downarrow A_{c}

British Columbia

- $B_{\text{e,co}} = G \, \psi \, \text{ i. .., .., -B. ..,}$
- M , i.e., ..., E , i.e., ..., ..., L , ...,
- $D_{\text{exp}} = 0.01, \quad 0.01, \quad 0.01$
- M_{obs}

Ontario

- $M = \{1, \dots, J \in \mathcal{J} \mid J \in \mathcal{J} \in \mathcal{J} \mid J \in \mathcal{J} \in \mathcal{J}$
- M, . . K, z,

Quebec

M, ,,,, ..., ', , , ...,

Chinese Taipei

- H**₩** ₩, K,

Colombia _v

- F. J. . . . z

Croatia

- $J_{\ldots} B_{\downarrow \ldots} C_{\downarrow \ldots}$
- $G_{\text{pos}} = \{0, 1, \dots, n\}$

Czech Republic

- $D_{\text{pos}} = P_{\text{pos}} = P_{\text{pos}}$

Denmark

- $J = M_{\cdots}$
- $\begin{picture}(20,0) \put(0,0){\line(1,0){10}} \put(0,0$

Egypt

- $N = \langle \langle -K \rangle, \langle \langle z \rangle,$
- N .,, , C.,

England

- Lz 🖼

Finland

- **⊠**_...,. , J...,..

France

 $M \subset C$ N G , G $D_{\text{\tiny pole}}$, where $E_{\text{\tiny pole}}$

Georgia

 $M \;, \quad M_{\text{per}} \;, \quad \dots \;, \quad \dots \;, \quad \dots \;$ N**E** , ,, ,, ,, C., , ...

Germany

, . . , . , B, , **□**,...,.., **D**,.., **↓**, Honduras

C E ... E ...

Hong Kong

, -K , $F=\{\hspace{-0.1cm}\downarrow\hspace$. **A**. . . , , , , , H, , , , K, ,

Hungary

 $I_{\text{cons}}, B \in \textbf{z}_{\text{cons}}$ P. 🔯 . . .

Indonesia

B ϕ , ϕ , , , $I_{\psi} \; \ldots \; \psi \; \ldots \; E_{\psi} \; \psi \; \ldots \; .$ i, . i . , . Ď, . , . , . , . , $M,\dots,\dots, N\dots, E_{\ell-\frac{d}{2}}\dots,$

Iran, Islamic Republic

A . , 'z, K . , , $I_{\psi} = \{ 1, \dots, 1, \dots, K \in \mathcal{K} \mid \{1,\dots, K\} \}$ M_{constant} E_{constant}

Israel y

I, -K., N ... A ... E ... E ... (AMA) $M_{\text{product}} = E_{\text{product}} = E_{\text{product}}$

Italy

 $I_{\underline{z}}$, $I_{\underline{z}}$, $N_{\underline{z}}$, $N_{\underline{z}}$, $I_{\underline{z}}$ E I Z (INMAL I)

Kuwait

 $A \rightarrow \{G, \dots, A, -B \ zz \ z\}$ E, , ,, a D. $C_{\text{\tiny possible}}, \quad B_{\text{\tiny possible}}, \quad E_{\text{\tiny possible}} \downarrow \quad \ldots \; , \quad$

Latvia

A, Oz, $F = \emptyset_{\mathcal{K}} \quad , \quad E_{\mathcal{K}} \quad \emptyset \quad \dots \quad , \quad \mathcal{F}$ **⊠**_..., L.., Libya ψ ... M ... ψ K ...

M_{pos} , M_{pos} , M_{pos} , M_{pos} , M_{pos}

Lithuania

 A_{\ldots} E_{\ldots} $N = \{1, \dots, m\} \quad \text{if } \quad \text{i$ $M_{i,j}$, $E_{i,j}$, $E_{i,j}$, $E_{i,j}$

Luxembourg
P.....
M.,,,,,,,,,

 N_{opt}

Malta

 $G_{\text{c}} = G_{\text{c}} \cdot G_{\text{c}}$

 $M_{\text{possible}} = E_{\text{possible}} + E_{\text{possi$

Mongolia

Serbia

- $,\quad,\quad,\quad G\;,\quad P\;,\quad,\quad$ $I_{\psi} \; \ldots \; \psi \; \ldots \; , \; E_{\ell} \; \psi \; \ldots \; , \; .$

Singapore

- $N_{ij} H_{ij} B_{ij}$ E 📲 ,
- $M_{\text{perman}} = E_{\text{perman}} = E_{\text{perman}$

Slovak Republic

- $P \ \ \downarrow \ldots \ \ K \ \ldots \ \ldots$
- $D_{\text{exp}}(x_1, x_2, \dots, x_n) = \prod_{i=1}^n \left(\sum_{j=1}^n \sum_{i=1}^n \sum_{j=1}^n \sum_{j=1}^n \sum_{j=1}^n \sum_{i=1}^n \sum_{j=1}^n \sum_{j=1}^n$
- M
 N
 I
 C
 E
 M
 (NØ CEM)

Slovenia

- $M_{\text{total}} = D_{\text{total}} H_{\text{total}}$
- $\mathbf{E}_{\mathbf{q}}$

South Africa

- . Н 🗃
- E, , ,
- C. E (CEA)

Spain

- $J_{\cdot,\cdot} \downarrow D_{\cdot,\cdot} , \ldots \downarrow z C_{\cdot,\cdot,\cdot}$
- $I_{\text{poss}} \downarrow_{\text{poss}} E = \downarrow_{\text{poss}}$
- $M,\dots\dots E, \quad E \quad \emptyset \quad \dots, \quad$

Sweden

- $M_{\text{con}} = E_{\text{col}} \downarrow \text{col}$
- $N_{\text{cons}}, \quad \ _{\text{c}}A_{\text{cons}}, \quad \ _{\text{c}}E_{\text{c}} \quad _{\text{c}}$

Ukraine

N $\underline{D}_{\text{part}} = \underline{D}_{\text{part}} = \underline{D}$ P., . . , , D. . , . ,

United States

- $\dots \dots \dots P_{n,n} \dots \dots$
- $N_{\text{total}}, \dots, C_{\text{total}}, \dots, E_{\text{total}}, \dots$
- **∑.** D. E. ↓