

TIMSS i de ig ed e de c i e i h i f a i a b h e i d e ' a h e a i c a d c i e c e a c h i e e h a c a b e e d i f e i d e c e b a e d d e c i o f o i g e d c a i a i c a d a c i e . C d c e d e e f e a i c e 1995, i h e a c h a e e i e d h e e h a e c e d e d i , T I M S S e g a a d i e d a a f e d c a a d i c a e e d i d e ' a h e a i c a d c i e c e a c h i e e .

C e a T I M S S ' i i h e e a e e f d e a c h i e e i a h e a i c a d c i e c e i a h a d e i c e h e b e a d h a d i c h e f h e e b e c a h e a e a g h i h e a i c i a i g c i e , a d h a i c i e ' i e e d e c i e b a c i g e d i d e e f a c e f e a e e c e h e e . T h e i e a a e e h a i d e a g i g i i c e a g e a d d i f f i c i e f a h e a i c a d c i e c e a d i i e i e a e e a a c h . W i h a d i e e e f c i e a i c i a i g i T I M S S , i h a i g c i c a a d a b i e e , h i h a a b e e a c h a e g e . I h e a , T I M S S h a f f e e d e d i f f i c i e i f a h e a i c h a c i e a i c i a i g a h e f h g a d e c d c h e a d i e , a i g i h T I M S S N e a c i 2015<sup>1</sup> a d f i g i h h e T I M S S e d i f f i c a h e a i c a e e i 2019.<sup>2</sup> T h e e f f e e c e f i e a d i g h e T I M S S c e a g e f d e a h e e d f h e a h e a i c a b i d i i b i . H e e , h e i e d a a e a e e e e c e e b h c e a a d e a i a M i a h e d i d a d d e h e e d f e c h a e g i g a h e a i c a e i a f h i g h e a c h i e i g d e c i e c e .

T I M S S c i e i a d i i f i i e a i i e a c h a e e c e . T I M S S 2019 b e g a h e a i i f a e - a d - e c i d i g i a f a , i h a b h a f f h e c i e c h i g d i g a f a a d h a f e e i g a e f a a i e T I M S S a e e . F o T I M S S 2023, h e a a i f c i e h a e a i i e d , a e a i i i g , a d i g i a a e e . M e e , T I M S S 2023 i a d i g a i g e i f i d a e e b a e d a e g a d a i e a e e d e i g a d d e h e e e d f a b a d e a g e f a e e d i f f i c a d b e e a g e i g f d e a b i i







TIMSS i ce i i ce i h a c a a b e a c h i e e d a a f 1995, 1999, 2003, 2007, 2011, 2015, 2019, a d 2023, a d c h a g e i e f a c e h i 28- e a e i d.

I a d d i i h e a a c h i e e c a e f a h e a i c a d c i e c e, TIMSS 2023 i c c a e f e i g e a i e d e e f a c e i e a c h o f h e a h e a i c a d c i e c e e a d c o g i i e d a i d e f i e d i h e TIMSS 2023 M a h e a i c a d S c i e c e A e e F a e . R e i g c a e i b e c c e d f e a c h c e a d c o g i i e d a i i a h e a i c a d c i e c e a e a c h g a d e e .







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e. Si ce e a i e f e c ie e e ed h e e e diffic a h e a ic i e b c i 2019,



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E hibi 4.6 a d 4.7 a e e he i e b c a i g e f e a c h b e , h i i e h i g  
h e e h e i i g e d b c b e g a d h e e h e i e b c d e e d f 2023, i c d i g  
h e f h g a d e e d i f f i c a h e a i c b c , i g . E h i b i 4.6 h h e f h g a d e b e ,  
E h i b i 4.7 h h e e i g h g a d e b e .



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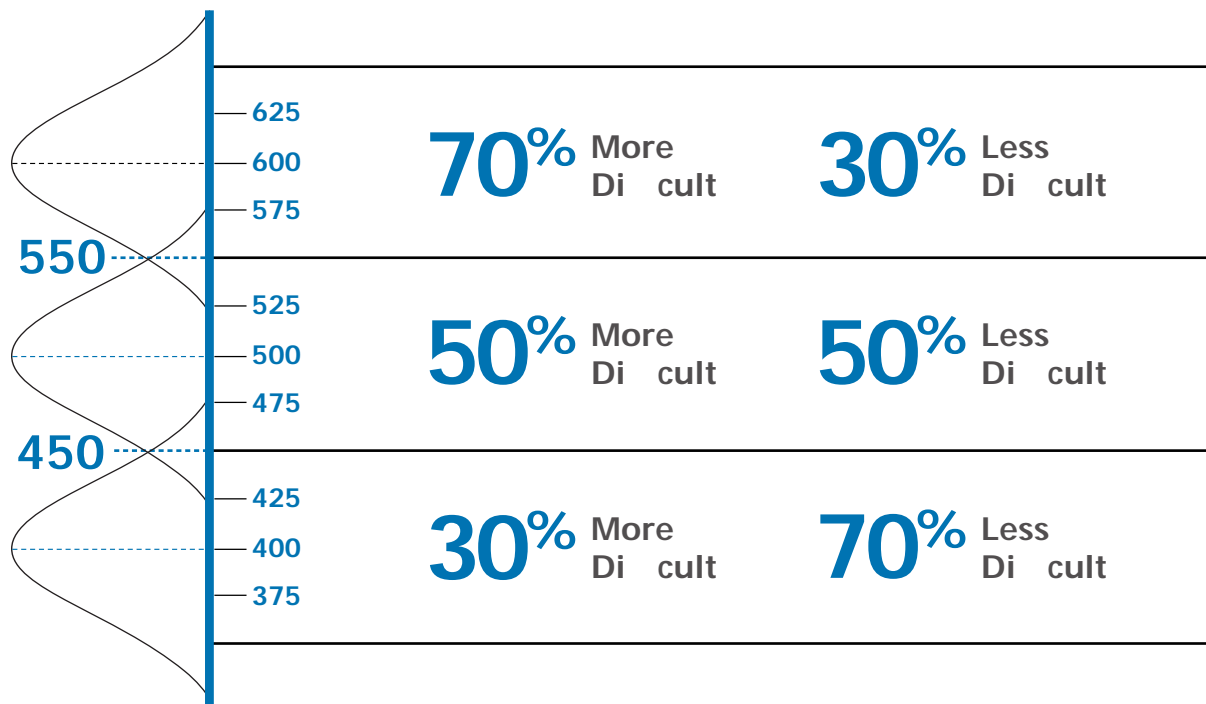
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The results have a clear message: the 14 countries in the TIMSS 2023 grade 4 mathematics performance are significantly higher than the average of the 45 countries. This is the first time since TIMSS 2001 that the highest performing countries are significantly higher than the average of the 45 countries. This is the first time since TIMSS 2001 that the highest performing countries are significantly higher than the average of the 45 countries.

Exhibit 4.8 illustrates the difference in mathematics performance between the highest performing countries and the average of the 45 countries. The TIMSS 2023 mathematics performance of the highest performing countries is 625, which is 70% higher than the average of the 45 countries (450). The TIMSS 2023 mathematics performance of the lowest performing countries is 375, which is 70% lower than the average of the 45 countries (450).



While TIMSS 2023 is a significant achievement for the region, the results of the 2023 assessment in E hibit 4.3, the results of the 2023 assessment show that the region's performance in mathematics is still below the global average. The results of the 2023 assessment show that the region's performance in mathematics is still below the global average. The results of the 2023 assessment show that the region's performance in mathematics is still below the global average.

Although the TIMSS 2023 results show that the region's performance in mathematics is still below the global average, the results of the 2023 assessment show that the region's performance in mathematics is still below the global average. The results of the 2023 assessment show that the region's performance in mathematics is still below the global average.

The TIMSS 2023 results show that the region's performance in mathematics is still below the global average. The results of the 2023 assessment show that the region's performance in mathematics is still below the global average. The results of the 2023 assessment show that the region's performance in mathematics is still below the global average.





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A a e a e e of a e b e i a i a b e f e e f i g c i e a d i i e i g  
he TIMSS 2023 a e a e e a h e f h g a d e . I i b a e d h e TIMSS 2019 e d i f f i c  
a h e a i c a e e a d a c i f e d i e b c . E h i b i 4.10 e e h e i g h a e  
b e a d i e b c f h e TIMSS 2019 f h g a d e e d i f f i c a h e a i c a e e . S i  
f h e i g h a h e a i c e d i e b c a e i e h e TIMSS 2019 e d i f f i c a e e a d  
i d e i f i a b e b h e e e M N i h e i e b c a b e . T h e h e h e a h e a i c i e b c M P 0 8



The TIMSS 2023 ~~is~~ ~~side c~~ ~~ie~~ ~~h~~ ~~de a~~ ~~c~~ ~~e i~~ ~~a~~ ~~he~~ ~~a~~ ~~i~~ ~~c~~ ~~a~~ ~~d~~



Ma i , M. O., M i , I.V.S., & F P. ( ). TIMSS e e de ig . I M i , I.V.S. & Ma i , M.O. (Ed .),

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