



Bihar

Village map as drawn by volunteers in their survey booklet



School enrollment

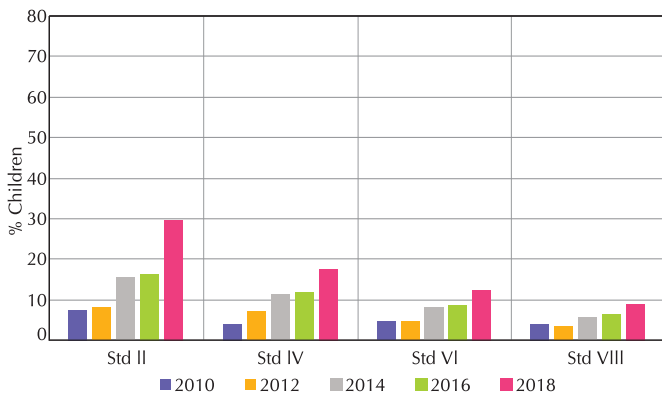
Table 1: % Children enrolled in different types of schools by age group and gender 2018

Age group	Govt	Pvt	Other	Not in school	Total
Age 6-14: All	78.1	16.9	1.0	3.9	100
Age 7-16: All	78.9	15.6	0.9	4.7	100
Age 7-10: All	76.4	19.4	1.2	3.1	100
Age 7-10: Boys	72.1	23.7	1.2	3.0	100
Age 7-10: Girls	80.8	14.9	1.1	3.2	100
Age 11-14: All	80.4	14.8	0.8	4.0	100
Age 11-14: Boys	76.3	19.2	0.7	3.9	100
Age 11-14: Girls	84.3	10.7	0.8	4.2	100
Age 15-16: All	81.6	7.2	0.4	10.8	100
Age 15-16: Boys	78.5	9.3	0.4	11.8	100
Age 15-16: Girls	84.3	5.5	0.4	9.8	100

'Other' includes children going to Madarsa or EGS.

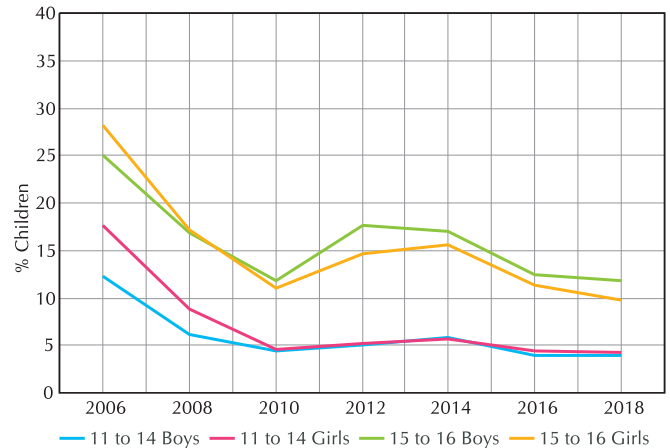
'Not in school' includes children who never enrolled or have dropped out.

Chart 2: Trends over time
% Children enrolled in private schools in Std II, IV, VI and VIII
2010, 2012, 2014, 2016 and 2018



The proportion of children going to private school often varies by grade. There are also changes over time. For example, in 2018 private school enrollment in Std II is 29.7% as compared to 8.9% in Std VIII.

Chart 1: Trends over time
% Children not enrolled in school by age group and gender
2006, 2008, 2010, 2012, 2014, 2016 and 2018



Each line shows trends in the proportion of children not enrolled in school for a particular subset of children. For example, the proportion of girls (age 15-16) not enrolled in school was 28.2% in 2006, 14.6% in 2012, and 9.8% in 2018.

Table 2: Age-grade distribution
% Children in each grade by age 2018

Std \ Age	≤5	6	7	8	9	10	11	12	13	14	15	16	Total
I	28.1	30.3	18.0	11.3				12.4				100	
II	9.9	15.1	25.4	26.9	8.6	8.7				5.4		100	
III	2.2	5.4	12.5	29.3	20.9	18.0				11.8		100	
IV	2.6	5.3		17.0	19.2	34.3	8.7	9.2				3.8	100
V	2.8		6.7		9.2	34.2	19.8	17.6	5.7			4.0	100
VI	7.9			18.3			21.0	33.7	11.5			7.6	100
VII	2.3			7.8			10.8	34.5	26.2	11.2	7.4		100
VIII	8.2			20.4			27.2	27.3	11.5	5.4			100

This table shows the age distribution for each grade. For example, of all children in Std III, 29.3% children are 8 years old but there are also 5.4% who are 6, 12.5% who are 7, 20.9% who are 9, 18% who are 10, and 11.8% who are 11 or older.

Young children in pre-school and school

Table 3: % Children age 3-8 enrolled in different types of pre-schools and schools 2018

Age	Pre-school			School			Not in pre-school or school	Total
	Anganwadi	Govt LKG/UKG	Pvt LKG/UKG	Govt	Pvt	Other		
Age 3	56.6	0.4	3.9	4.5	1.3	0.1	33.3	100
Age 4	55.8	0.8	11.3	10.3	3.5	0.5	17.8	100
Age 5	36.4	0.7	17.0	27.4	6.3	0.8	11.5	100
Age 6	13.3	0.5	16.5	52.9	10.1	1.0	5.7	100
Age 7	3.5	0.6	13.8	62.9	14.8	0.9	3.6	100
Age 8	1.7	0.2	8.3	68.9	16.9	1.2	2.9	100



Data is not presented where sample size is insufficient.

Reading

ASER learning assessments are conducted in the household. Children in the age group 5-16 are assessed. Assessments are conducted in 19 languages across the country. The type of school in which children are enrolled (government or private) is also recorded.

Table 4: % Children by grade and reading level All children 2018

Std	Not even letter	Letter	Word	Std I level text	Std II level text	Total
I	53.9	21.5	8.2	5.2	11.2	100
II	35.0	29.0	12.6	8.0	15.5	100
III	24.0	26.6	15.2	10.7	23.5	100
IV	16.1	23.4	14.0	13.2	33.3	100
V	12.7	17.7	12.5	15.9	41.3	100
VI	6.7	14.5	12.1	14.1	52.7	100
VII	4.2	8.7	8.4	12.0	66.7	100
VIII	2.9	7.7	7.2	11.1	71.2	100

The reading tool is a progressive tool. Each row shows the variation in children's reading levels within a given grade. For example, among children in Std III, 24% cannot even read letters, 26.6% can read letters but not words or higher, 15.2% can read words but not Std I level text or higher, 10.7% can read Std I level text but not Std II level text, and 23.5% can read Std II level text. For each grade, the total of these exclusive categories is 100%.

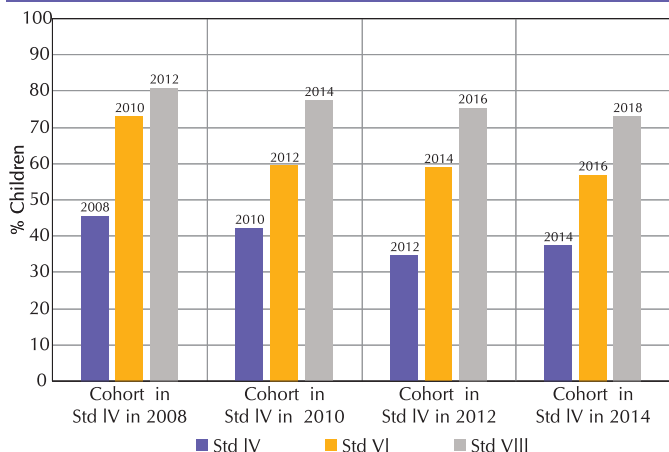
Table 5: Trends over time Reading in Std III by school type 2012, 2014, 2016 and 2018

Year	% Children in Std III who can read Std II level text		
	Govt	Pvt	Govt & Pvt*
2012	14.2	52.7	16.8
2014	15.6	66.1	21.9
2016	13.9	62.5	20.8
2018	12.3	62.0	23.7

* This is the weighted average for children in government and private schools only.

The highest level in the ASER reading assessment is a Std II level text. Table 5 shows the proportion of children in Std III who can read Std II level text. This figure is a proxy for "grade level" reading for Std III. Data for children enrolled in government schools and private schools is shown separately.

Chart 3: Trends over time % Children who can read Std II level text Cohorts of children in Std IV in 2008, 2010, 2012 and 2014



This graph shows the progress of four cohorts from Std IV to Std VIII. For example, the first cohort was in Std IV in 2008, in Std VI in 2010, and in Std VIII in 2012. For this cohort, % children who could read Std II level text in Std IV (in 2008) was 45.6% and in Std VI (in 2010) was 73.1%. When the cohort reached Std VIII in 2012, this figure was 80.7%. The progress of each of these cohorts can be understood in the same way.

Reading Tool (Hindi)

Std II level text	Std I level text
<p>नगमा समझदार लड़की थी। मगर उसका छोटा भाई अमन बहुत नटखट था। एक दिन दोनों बाज़ार में घूम रहे थे। अमन ने रास्ते में पकौड़े देखे। उसे पकौड़े बहुत पसंद थे। माँ उसके लिए पकौड़े बनाती थी। नगमा ने कहा यह पकौड़े तीखे होंगे। मगर अमन नहीं माना। अमन ने पकौड़े खाए और उसकी आँखों से आँसू निकलने लगे।</p>	<p>रात हो गई है। चाँद दिख रहा है। तारे भी चमक रहे हैं। सब लोग सो गए हैं।</p>
<p>Letters</p> <p>न प म च स थ ग द र ल</p>	<p>Words</p> <p>आग सोच ताला गिर पानी मौका धुन देश पैसा बूढ़ा</p>

Table 6: Trends over time Reading in Std V and Std VIII by school type 2012, 2014, 2016 and 2018

Year	% Children in Std V who can read Std II level text			% Children in Std VIII who can read Std II level text		
	Govt	Pvt	Govt & Pvt*	Govt	Pvt	Govt & Pvt*
2012	43.1	74.8	44.4	80.3	93.1	80.7
2014	44.6	87.8	48.2	76.9	86.8	77.3
2016	38.0	82.6	41.8	73.9	96.0	75.2
2018	35.1	78.1	41.3	69.5	93.0	71.4

* This is the weighted average for children in government and private schools only.



Data is not presented where sample size is insufficient.

Arithmetic

ASER learning assessments are conducted in the household. Children in the age group 5-16 are assessed. Assessments are conducted in 19 languages across the country. The type of school in which children are enrolled (government or private) is also recorded.

Table 7: % Children by grade and arithmetic level All children 2018

Std	Not even 1-9	Recognize numbers		Subtract	Divide	Total
		1-9	10-99			
I	42.7	29.4	15.4	6.9	5.7	100
II	22.7	36.9	22.2	9.4	8.9	100
III	12.1	32.6	26.9	13.9	14.6	100
IV	7.8	26.2	27.2	15.7	23.1	100
V	6.6	18.6	27.8	17.1	29.9	100
VI	3.2	12.4	26.8	17.4	40.3	100
VII	2.5	6.3	21.5	18.9	50.8	100
VIII	1.3	4.9	20.4	16.4	56.9	100

The arithmetic tool is a progressive tool. Each row shows the variation in children's arithmetic levels within a given grade. For example, among children in Std III, 12.1% cannot even recognize numbers 1-9, 32.6% can recognize numbers up to 9 but cannot recognize numbers up to 99 or higher, 26.9% can recognize numbers up to 99 but cannot do subtraction, 13.9% can do subtraction but cannot do division, and 14.6% can do division. For each grade, the total of these exclusive categories is 100%.

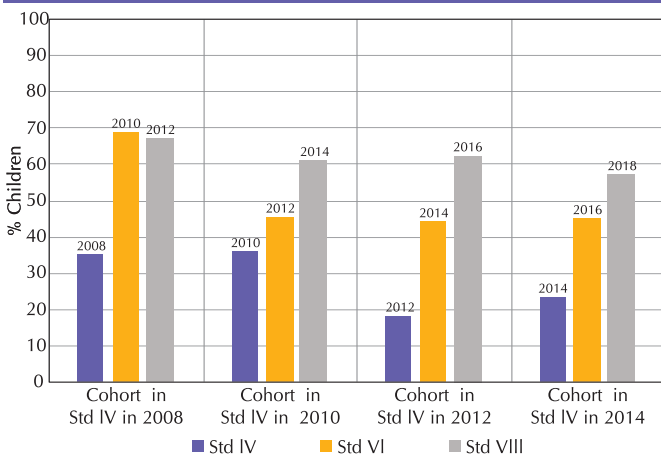
Table 8: Trends over time Arithmetic in Std III by school type 2012, 2014, 2016 and 2018

Year	% Children in Std III who can do at least subtraction		
	Govt	Pvt	Govt & Pvt*
2012	25.1	68.4	28.1
2014	18.0	68.0	24.2
2016	20.0	72.0	27.3
2018	18.0	65.6	28.9

* This is the weighted average for children in government and private schools only.

In most states, children are expected to do 2-digit by 2-digit subtraction with borrowing by Std II. Table 8 shows the proportion of children in Std III who can do subtraction. This figure is a proxy for "grade level" arithmetic for Std III. Data for children enrolled in government schools and private schools is shown separately.

Chart 4: Trends over time % Children who can do division Cohorts of children in Std IV in 2008, 2010, 2012 and 2014



This graph shows the progress of four cohorts from Std IV to Std VIII. For example, the first cohort was in Std IV in 2008, in Std VI in 2010, and in Std VIII in 2012. For this cohort, % children who were at division level in Std IV (in 2008) was 35.1% and in Std VI (in 2010) was 68.9%. When the cohort reached Std VIII in 2012, this figure was 67%. The progress of each of these cohorts can be understood in the same way.

Arithmetic Tool (Hindi)

अंक पहचान 1-9		संख्या पहचान 10-99		घटाव		भाग
5	7	74	23	63 - 44	51 - 35	7) 898
8	4	91	86	92 - 48	71 - 35	4) 659
2	9	24	79	45 - 27	34 - 19	8) 946
3	1	37	61	43 - 29	46 - 17	6) 757

अंक से संदं ही ० संख्या पहचान करे को नहीं; सम से सम = नहीं संके नहीं।
 अंक से संदं ही ० संख्या पहचान करे को नहीं; सम से सम = नहीं संके नहीं।
 अंक से संदं ही ० घटाव में घटाव करे को नहीं; संदं ही नहीं संके नहीं।
 अंक से संदं ही ० भाग का घटाव करे को नहीं; भाग ही संके नहीं।

Table 9: Trends over time Arithmetic in Std V and Std VIII by school type 2012, 2014, 2016 and 2018

Year	% Children in Std V who can do division			% Children in Std VIII who can do division		
	Govt	Pvt	Govt & Pvt*	Govt	Pvt	Govt & Pvt*
2012	30.0	60.6	31.3	66.4	85.2	67.0
2014	31.4	72.4	34.9	60.3	80.9	61.2
2016	28.9	72.5	32.6	61.0	85.4	62.4
2018	24.1	64.0	29.9	55.1	78.7	57.0

* This is the weighted average for children in government and private schools only.



Data is not presented where sample size is insufficient.

Basic reading and arithmetic

Table 10: Basic reading by age group and gender 2018

Age group	% Children who can read Std II level text		
	Male	Female	All
Age 8-10	30.7	28.3	29.6
Age 11-13	59.0	57.9	58.5
Age 14-16	79.2	72.0	75.1

Table 11: Basic arithmetic by age group and gender 2018

Age group	% Children who can do at least subtraction			% Children who can do division		
	Male	Female	All	Male	Female	All
Age 8-10	37.2	31.5	34.4	21.5	16.7	19.2
Age 11-13	66.7	58.6	62.5	49.8	41.2	45.3
Age 14-16	80.4	70.3	74.7	65.9	54.3	59.3

Beyond basics

These questions were asked only to children in the age group 14-16. For each task, the surveyor showed the visual and read out the question to the child. The exact answer given by the child was recorded. The results are reported only for those children who were able to do at least subtraction correctly.

Calculating time

अगर यह लड़की रात को इस समय सोती है और सुबह इस समय उठती है, तो बताओ कि यह कुल कितने घंटे सोती है?

Applying unitary method

अगर 15 लीटर पानी को शुद्ध करने के लिए दुबार्ड की 3 गोलियाँ बालनी पड़ती हैं, तो बताओ कि 40 लीटर पानी को शुद्ध करने के लिए कितनी गोलियाँ डालनी पड़ेंगी?

Financial decision making

बाज़ार में किताबों की 2 दुकानें हैं जहाँ यह 5 किताबें मिलती हैं। यदि आपको यह पाँचों किताबें खरीदनी हैं, तो आपको कम-से-कम कितने रुपये देने होंगे?

दुकान 1 - मूल्य सूची		दुकान 2 - मूल्य सूची	
किताब का नाम	मूल्य	किताब का नाम	मूल्य
विज्ञान	₹ 80	विज्ञान	₹ 80
गणित	₹ 30	गणित	₹ 30
हिन्दी	₹ 70	हिन्दी	₹ 70
अंग्रेजी	₹ 60	अंग्रेजी	₹ 60
इतिहास	₹ 40	इतिहास	₹ 40

Calculating discount

यह इस टी-शर्ट का मूल्य है और इस दाम पर 10 प्रतिशत/percent की छूट है। अगर आपको यह टी-शर्ट खरीदनी हो, तो आपको कितने रुपये देने होंगे?

Table 12: Of all children who can do subtraction but not division, % children who can correctly answer by age and gender 2018

Age	Calculating time			Applying unitary method			Financial decision making			Calculating discount		
	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female	All
Age 14	43.7	29.7	35.3	32.1	28.2	29.8	26.7	16.6	20.6	24.2	9.6	15.5
Age 15	40.7	25.4	32.0	38.1	30.4	33.8	20.6	20.8	20.7	20.6	9.7	14.4
Age 16	48.0	36.9	41.1	39.4	31.8	34.7	20.4	11.7	15.0	22.6	6.4	12.5
Age 14-16	43.8	30.5	35.9	36.1	29.9	32.4	23.0	16.4	19.1	22.5	8.7	14.3

Table 13: Of all children who can do division, % children who can correctly answer by age and gender 2018

Age	Calculating time			Applying unitary method			Financial decision making			Calculating discount		
	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female	All
Age 14	49.0	42.3	45.9	54.9	41.3	48.5	32.9	26.5	29.9	32.6	23.8	28.5
Age 15	48.8	40.3	44.4	54.4	41.5	47.7	37.9	27.9	32.7	35.3	21.7	28.3
Age 16	52.7	39.0	44.6	53.1	44.9	48.3	37.1	28.0	31.7	39.6	23.3	30.0
Age 14-16	49.8	40.6	45.1	54.3	42.4	48.2	35.5	27.4	31.3	35.1	23.0	28.8



School observations

In each sampled village, the largest government school with primary sections is visited on the day of the survey. Information about schools in this report is based on these visits.

**Table 14: Trends over time
Number of schools visited
2010, 2014, 2016 and 2018**

	2010	2014	2016	2018
Primary schools (Std I-IV/V)	265	224	245	237
Upper primary schools (Std I-VII/VIII)	702	864	866	863
Total schools visited	967	1088	1111	1100

**Table 15: Trends over time
Student and teacher attendance on the day of visit
2010, 2014, 2016 and 2018**

	2010	2014	2016	2018
Primary schools (Std I-IV/V)				
% Enrolled children present (Average)	56.1	58.2	59.1	56.5
% Teachers present (Average)	84.6	77.5	74.6	68.5
Upper primary schools (Std I-VII/VIII)				
% Enrolled children present (Average)	55.9	52.1	52.0	52.9
% Teachers present (Average)	80.6	76.0	76.5	73.0

**Table 16: Trends over time
Multigrade classes
2010, 2014, 2016 and 2018**

	2010	2014	2016	2018
Primary schools (Std I-IV/V)				
% Schools where Std II children were observed sitting with one or more other classes	67.6	79.3	71.8	83.3
% Schools where Std IV children were observed sitting with one or more other classes	63.7	79.0	67.1	74.0
Upper primary schools (Std I-VII/VIII)				
% Schools where Std II children were observed sitting with one or more other classes	53.0	58.8	56.9	61.9
% Schools where Std IV children were observed sitting with one or more other classes	43.4	52.8	50.6	50.3

School facilities

**Table 17: Trends over time
% Schools with selected facilities
2010, 2014, 2016 and 2018**

% Schools with		2010	2014	2016	2018
Mid-day meal	Kitchen shed for cooking mid-day meal	64.0	87.7	87.2	91.6
	Mid-day meal served in school on day of visit	57.2	69.2	76.5	84.5
Drinking water	No facility for drinking water	9.6	2.3	3.5	3.5
	Facility but no drinking water available	11.7	7.3	7.1	6.8
	Drinking water available	78.7	90.4	89.5	89.7
	Total	100	100	100	100
Toilet	No toilet facility	19.3	6.4	4.8	3.4
	Facility but toilet not useable	47.2	33.0	24.6	21.1
	Toilet useable	33.6	60.6	70.6	75.6
	Total	100	100	100	100
Girls' toilet	No separate provision for girls' toilet	49.9	25.4	17.4	16.7
	Separate provision but locked	15.1	14.3	7.5	9.1
	Separate provision, unlocked but not useable	16.9	14.1	14.3	11.2
	Separate provision, unlocked and useable	18.1	46.2	60.8	63.0
	Total	100	100	100	100
Library	No library	47.1	23.7	30.7	40.9
	Library but no books being used by children on day of visit	24.7	45.8	36.6	31.6
	Library books being used by children on day of visit	28.2	30.5	32.8	27.5
	Total	100	100	100	100
Electricity	Electricity connection			72.6	69.5
	Of schools with electricity connection, % schools with electricity available on day of visit			63.6	71.4
Computer	No computer available for children to use	93.1	94.3	92.9	96.6
	Available but not being used by children on day of visit	2.9	5.0	6.3	2.8
	Computer being used by children on day of visit	4.0	0.7	0.8	0.6
	Total	100	100	100	100



Data is not presented where sample size is insufficient.

Other school indicators

In each sampled village, the largest government school with primary sections is visited on the day of the survey. Information about schools in this report is based on these visits.

**Table 18: Trends over time
 % Schools with total enrollment of 60 or less
 2010, 2014, 2016 and 2018**

	2010	2014	2016	2018
Primary schools (Std I-IV/V)	0.4	1.8	2.1	5.9
Upper primary schools (Std I-VII/VIII)	0.2	0.0	0.1	0.0

Table 19: Physical education and sports in schools 2018

% Schools with		Std I-IV/ V	Std I-VII/ VIII	All schools
Dedicated time for physical education	Physical education period in the timetable	35.7	64.7	58.5
	No physical education period but dedicated time allotted	22.2	17.5	18.5
	No physical education period and no dedicated time allotted	42.2	17.8	23.0
	Total	100	100	100
Physical education teacher	Separate physical education teacher	4.4	46.7	37.6
	Other physical education teacher	44.3	32.9	35.4
	No physical education teacher	51.3	20.4	27.0
	Total	100	100	100
Playground	Playground inside the school premises	42.0	55.0	52.2
	Playground outside the school premises	22.9	20.2	20.8
	No accessible playground	35.1	24.8	27.0
	Total	100	100	100
Availability of any sports equipment		34.9	59.9	54.5
Supervised physical education activity observed on day of visit		14.2	26.4	23.6

**Table 20: School Management Committee (SMC) in schools
 2014, 2016 and 2018**

	2014	2016	2018
% Schools which reported having an SMC	91.0	94.2	95.2
Of all schools that have an SMC, % schools that had the last SMC meeting			
Before July	13.7	8.7	7.4
Between July and September	71.2	65.9	80.4
After September	15.1	25.4	12.1

