

Compact data on education



Preface

Dear readers

following the empirical turn in educational policy, surveys and statistical data on education have played an important role, and their significance in the debate on educational policy continues to grow. One of the tasks of the Secretariat of the Standing Conference is to respond to queries for statistical data on education and to provide statistical data to experts from the fields of research and educational policy, the press media and interested members of the public. This leaflet contains an overview of important facts and figures about schools, institutions of higher education, expenditure for education, science and research, forecasts in the fields of school and higher education as well as individual statistical data for the Länder.

Udo Michallik

Secretary General of the Standing Conference of the Ministers

of Education and Cultural Affairs





The responsibility for the educational system in Germany results from the distribution of competence in Article 30 of the Constitution. According to this, the main responsibility for the school sector, the higher education sector, adult education, continuing education and culture falls under so-called cultural sovereignty of the Länder.

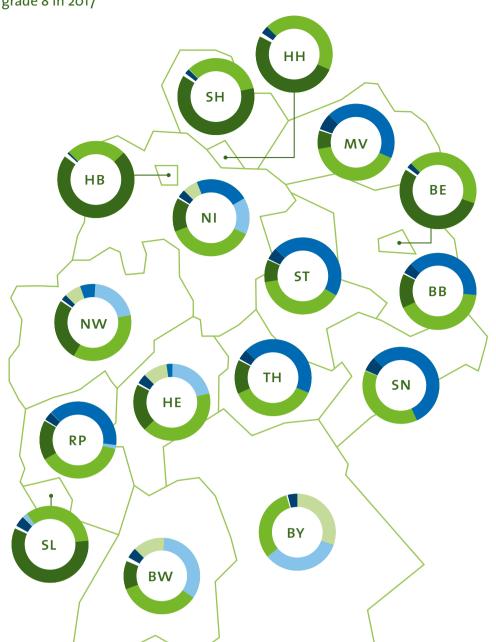
Further information can be found at:

www.kmk.org/dokumentation-statistik/statistik.html www.kmk.org/dokumentation-statistik/informationen-zum-deutschen-bildungssystem.html www.bildungsberichte.de

https://www.kmk.org/kmk/information-in-english.html

Distribution of pupils according to school types

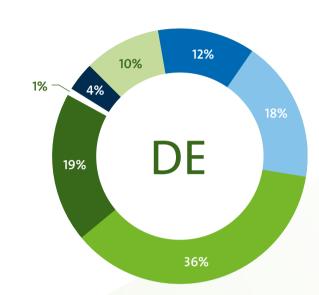
in grade 8 in 2017



Education in Germany at a glance

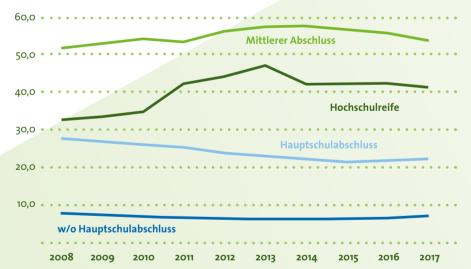


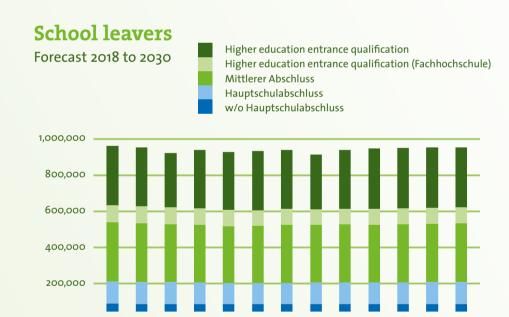
Special schools



Higher education entrance qualification (University)

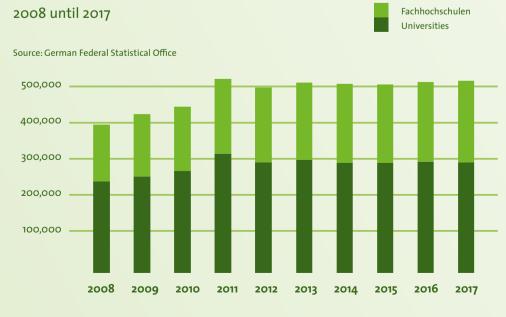
Share of the population of the same age group in %





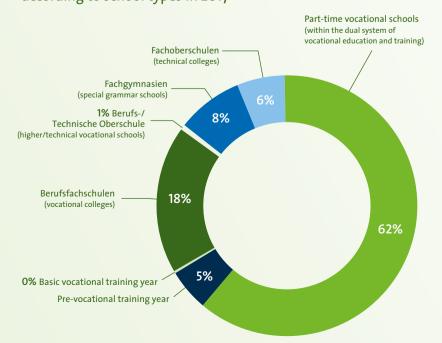
2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030





Pupils at vocational schools

according to school types in 2017



Schools in Germany

	2000	2010	2015	2017
Total no. of schools(1)	51,638	43,705	42,500	41,765
PUBLIC	47,565	38,277	36,679	35,926
in %	92,1%	87,6 %	86,3 %	86,0 %
PRIVATELY SPONSORED	4,073	5,428	5,821	5,839
in %	7,9 %	12,4 %	13,7 %	14,0 %
GENERAL EDU.	41,865	34,837	33,687	32,995
VOCATIONAL	9,773	8,868	8,813	8,770
	•	• • • • • • • • • • • • • • • • • • • •	•	
Pupils ²	12,641,629	11,484,960	10,831,676	10,837,182
GENERAL EDUCATION SCHOOLS	9,961,214	8,796,942	8,335,061	8,346,856
VOCATIONAL SCHOOLS	2,680,415	2,688,018	2,496,615	2,490,326
Teachers 2,3	720,482	732,013	738,182	746,594
GENERAL EDUCATION SCHOOLS	611,196	614,130	620,760	627,323
VOCATIONAL SCHOOLS	109,286	117,883	117,422	119,272
	•			
Pupils per teacher, total	17,5	15,7	14,7	14,5
GENERAL EDUCATION SCHOOLS	16,3	14,3	13,4	13,3
VOCATIONAL SCHOOLS	24,5	22,8	21,3	20,9
School leavers ²				
FROM GENERAL EDUCATION SCHOOLS	932,792	857,171	839,802	824,679
W/O HAUPTSCHULABSCHLUSS	84,998	53,041	47,439	52,682
in % ⁴	9,4 %	6,5 %	5,9 %	6,5 %
HAUPTSCHULABSCHLUSS	233,306	173,848	135,663	130,303
in % ⁴	25,7 %	21,4 %	17,0 %	16,2 %
MITTLERER SCHULABSCHLUSS	274 455	240 127	260 422	254 276
(INTERMEDIATE LEVEL QUALIFICATION)	374,455	349,137	368,432	354,276
in % ⁴	40,9 %	42,6 %	45,8 %	43,7 %
HIGHER EDU. ENTRANCE QUALIFICATION	240,033	281,145	288,268	287,418
in % ⁴	25,6 %	30,3 %	34,8 %	33,7 %
FROM VOCATIONAL SCHOOLS	1,018,626	1,140,448	1,002,777	1,010,914
HIGHER EDU. ENTRANCE QUALIFICATION	106,481	177,177	156,557	153,360
in % ⁴	11,4 %	18,7 %	18,2 %	17,2 %
	•••••••••••••••••••••••••••••••••••••••	•••••••••••••••••••••••••••••••••••••••	•	
Eligible to study	346,514	458,322	444,825	440,778
OF WHICH FEMALE in %	53,6 %	52,8 %	52,7 %	53,1 %
OVERALL RATIO OF PEOPLE ELIGIBLE TO STUDY ⁴	37,2%	49,0%	53,0%	50,9%
HIGHER EDU. ENTRANCE QUALIFICATION ⁴	27,6%	33,9%	41,2%	40,2%
HIGHER EDU. ENTRANCE QUALIFICATION ⁴	9,6%	15,2%	11,8%	10,7%
Trainees 5	1,702,017	1,508,328	1,337,004	1,323,894
OF WHICH BEGINNERS	622,967	559,032	516,639	515,679

Institutions of higher education in Germany

	2000	2010	2015	2017
Total no. of institutions ⁷	354	422	444	445
UNIVERSITIES	168	179	181	18
FACHHOCHSCHULEN	186	243	263	264
Total no. of new students ⁷	314,956	444,719	506,580	513,166
of which female in %	49,2 %	49,5 %	50,2 %	50,8 %
AT UNIVERSITIES	216,052	272,630	296,777	295,144
AT FACHHOCHSCHULEN	98,904	172,089	209,803	218,022
NEW STUDENTS QUOTA ⁸	33,3 %	46,0 %	58,2 %	57,0 %
Total no. of students ⁷	1,799,338	2,217,604	2,757,799	2,844,978
OF WHICH FEMALE in %	46,1 %	47,8 %	48,0 %	48,5 %
AT UNIVERSITIES	1,341,149	1,503,839	1,791,988	1,818,259
AT FACHHOCHSCHULEN	458,189	713,765	965,811	1,026,719
	•••••••••••		• • • • • • • • • • • • • • • • • • • •	
German students abroad ⁹	57,000	127,600	139,700	
Foreign students in				
Germany ⁷	175,065	252,032	340,305	374,583
FOREIGN STUDENTS ⁷	112.883	184,960	251.542	282,002
NON-MOBILE FOREIGN STUDENTS ⁷	62,182	67,072	88,763	92,58
Graduates (first-time graduates) 11	176,654	294.881	317.102	311,44
OF WHICH FEMALE in %	45,6%	52,0%	51,1%	52,6%
Of Which I Limber III 70	15,070	32,070		
	244.472	261.607	404 500	F04 73
Total no. of degrees 10,11	214,473	361,697	481,588	501,734
BACHELOR AND EQUIVALENT QUALIFICATIONS	66,386	172,111	267,624	271,992
MASTER AND EQUIVALENT QUALIFICATIONS	122,307	163,957	184,746	201,338
TEACHER TRAINING INCL. BACHELOR AND	26,938	33,822	32,067	32,736
MASTER PHD	25,780	25,629	29,218	28,404
י חט	23,160	23,029	23,210	20,402
TT'-l l t t T 12	488,660	601,682	684,385	702,844
Higher education staff 12				
SCIENTIFIC/ARTISTIC	219,296	324,367	385,311	393,413
ADMINISTRATION/TECHNOLOGY/OTHERS	269,364	277,315	299,074	309,431

Expenditure on education, compact 6

	2000	2010	2016
National budget for education, research and	183,4	237,0	281,7
science for Germany overall (billion €)	0.1	0.2	0.0
SHARE OF GDP	9,1 128,5	9,2	9,0 200,1
BUDGET FOR EDUCATION	•••••••••••••••••••••••••••••••••••••••	······	200,1
INCLUDING PUBLIC SECTOR	95,2	137,8	
PRIVATE SECTOR	33,3	34,7	
ABROAD		0,6	
BUDGET FOR RESEARCH AND DEVELOPMENT	50,6	70,0	92,2
Total public expenditure on education (in thousand €)	79,263,636	106,218,684	128,374,086
Federal education budget (in thousand. €)	2,979,012	7,769,160	9,817,984
Public education budget acc. to Länder (in thousand €)	76,284,624	98,449,524	118,556,102
BADEN-WÜRTTEMBERG	10,141,072	13,139,118	16,102,556
BAVARIA	10,893,621	15,092,322	18,615,003
BERLIN	4,067,714	4,591,018	6,360,071
BRANDENBURG	2,220,389	2,421,836	2,972,152
BREMEN	741,741	880,721	1,035,971
HAMBURG	2,280,092	2,657,466	3,349,633
HESSE	5,278,080	8,094,538	9,166,871
MECKLENBURG-WESTERN POMMERANIA	1,751,711	1,800,217	2,023,725
LOWER SAXONY	6,828,936	9,105,839	11,012,556
NORTH RHINE-WESTPHALIA	16,323,224	21,342,951	26,290,653
RHINELAND-PALATINATE	3,410,275	4,851,895	5,181,321
SAARLAND	848,044	1,119,937	1,237,958
SAXONY	4,052,436	5,048,796	5,791,478
SAXONY-ANHALT	2,710,189	2,695,686	2,962,435
SCHLESWIG-HOLSTEIN	2,214,894	2,956,935	3,566,660
THURINGIA	2,522,211	2,650,252	2,887,059
Public education budget acc. to educational fields (in the	ousand €)		
PUBLIC SPENDING FOR DAY-CARE FACILITIES	7,499,086	15,738,776	24,663,853
GENERAL EDUCATION AND VOCATIONAL SCHOOLS	46,722,850	59,059,217	63,996,520
SPENDING PER PUPIL	-	6,000	6,900
INSTITUTIONS OF HIGHER EDUCATION	17,242,559	22,527,254	29,842,709
CURRENT EXPENDITURE PER STUDENT	6,000	6,400	6,800
OTHER EDUCATION	1,626,142	1,691,552	1,618,850
YOUTH AND YOUTH ASSOCIATIONS WORK	3,449,800	1,872,913	2,091,775
PUPIL / STUDENT SUPPORT	2,723,199	5,328,972	6,160,380
SPENDING BY THE FEDERAL EMPLOYMENT AGENCY AND THE FEDERAL MINISTRY OF LABOUR AND SOCIAL AFFAIRS FOR INITIAL EDUCATION	-	4,331,304	3,692,624
ADDITIONAL EXPENDITURE TO SUPPORT VOCATIONAL TRAINING	-	2,746,987	2,922,154

Forecasts for the school sector

	2018	2025	2030
Total no. of pupils 13	10,881,511	11,067,853	11,164,608
GENERAL EDUCATION SCHOOLS	8,389,708	8,757,018	8,817,667
in %	77,1%	79,1%	78,4%
VOCATIONAL SCHOOLS	2,491,803	2,310,834	2,346,940
in %	22,9%	20,9%	21,6%
PRE-SCHOOL LEVEL	28,475	30,847	30,503
PRIMARY LEVEL	2,918,092	3,063,761	3,018,605
SECONDARY LEVEL I	4,174,216	4,342,580	4,420,856
SECONDARY LEVEL II (GEN. EDU. SCHOOLS)	961,177	1,026,129	1,055,387
SPECIAL SCHOOLS	307,747	293,702	292,317
SECONDARY LEVEL II (VOCATIONAL SCHOOLS, FULL-TIME FORM)	939,384	862,491	872,516
SECONDARY LEVEL II (VOCATIONAL SCHOOLS, PART-TIME FORM)	1,552,419	1,448,343	1,474,424
Total no. of school leavers 13	1,812,899	1,682,756	1,729,074
			, ,,,,,
GENERAL EDUCATION SCHOOLS	804,258	765,932	808,891
	804,258 46,115		
GENERAL EDUCATION SCHOOLS	· · · · · · · · · · · · · · · · · · ·	765,932	808,891
GENERAL EDUCATION SCHOOLS W/O HAUPTSCHULABSCHLUSS	46,115	765,932 44,697	808,891 45,777
GENERAL EDUCATION SCHOOLS W/O HAUPTSCHULABSCHLUSS WITH HAUPTSCHULABSCHLUSS MITTLERER SCHULABSCHLUSS	46,115 129,212	765,932 44,697 122,487	808,891 45,777 125,720
GENERAL EDUCATION SCHOOLS W/O HAUPTSCHULABSCHLUSS WITH HAUPTSCHULABSCHLUSS MITTLERER SCHULABSCHLUSS (INTERMEDIATE LEVEL QUALIFICATION)	46,115 129,212 341,523	765,932 44,697 122,487 334,623	808,891 45,777 125,720 340,002
GENERAL EDUCATION SCHOOLS W/O HAUPTSCHULABSCHLUSS WITH HAUPTSCHULABSCHLUSS MITTLERER SCHULABSCHLUSS (INTERMEDIATE LEVEL QUALIFICATION) WITH HIGHER EDU. ENTRANCE QUALIFICATION	46,115 129,212 341,523 286,569	765,932 44,697 122,487 334,623 263,365	808,891 45,777 125,720 340,002 296,582
GENERAL EDUCATION SCHOOLS W/O HAUPTSCHULABSCHLUSS WITH HAUPTSCHULABSCHLUSS MITTLERER SCHULABSCHLUSS (INTERMEDIATE LEVEL QUALIFICATION) WITH HIGHER EDU. ENTRANCE QUALIFICATION	46,115 129,212 341,523 286,569 839	765,932 44,697 122,487 334,623 263,365 760	808,891 45,777 125,720 340,002 296,582 810
GENERAL EDUCATION SCHOOLS W/O HAUPTSCHULABSCHLUSS WITH HAUPTSCHULABSCHLUSS MITTLERER SCHULABSCHLUSS (INTERMEDIATE LEVEL QUALIFICATION) WITH HIGHER EDU. ENTRANCE QUALIFICATION WITH HIGHER EDU. ENTRANCE QUALIFICATION VOCATIONAL SCHOOLS	46,115 129,212 341,523 286,569 839 1,008,641	765,932 44,697 122,487 334,623 263,365 760 916,824	808,891 45,777 125,720 340,002 296,582 810 920,183
GENERAL EDUCATION SCHOOLS W/O HAUPTSCHULABSCHLUSS WITH HAUPTSCHULABSCHLUSS MITTLERER SCHULABSCHLUSS (INTERMEDIATE LEVEL QUALIFICATION) WITH HIGHER EDU. ENTRANCE QUALIFICATION VOCATIONAL SCHOOLS WITH HIGHER EDU. ENTRANCE QUALIFICATION	46,115 129,212 341,523 286,569 839 1,008,641 57,240	765,932 44,697 122,487 334,623 263,365 760 916,824 52,465	808,891 45,777 125,720 340,002 296,582 810 920,183 49,724
GENERAL EDUCATION SCHOOLS W/O HAUPTSCHULABSCHLUSS WITH HAUPTSCHULABSCHLUSS MITTLERER SCHULABSCHLUSS (INTERMEDIATE LEVEL QUALIFICATION) WITH HIGHER EDU. ENTRANCE QUALIFICATION WITH HIGHER EDU. ENTRANCE QUALIFICATION VOCATIONAL SCHOOLS WITH HIGHER EDU. ENTRANCE QUALIFICATION WITH HIGHER EDU. ENTRANCE QUALIFICATION	46,115 129,212 341,523 286,569 839 1,008,641 57,240 96,809	765,932 44,697 122,487 334,623 263,365 760 916,824 52,465 89,288	808,891 45,777 125,720 340,002 296,582 810 920,183 49,724 90,146

Teacher recruitment demand and supply 14|15

	2018	2025	2030	AVERAGE 2018–2030
Teacher recruitment demand				
la 1 - primary school	8,140	6,400	4,220	6,310
la 2 - primary school/sec. i	3,240	2,260	2,010	2,480
la 3 - sec. i	9,790	6,580	6,660	7,040
la 4 - sec ii (gen.)	9,630	9,360	7,630	8,350
LA 5 - SEC 11 (VOC.)	4,500	3,120	4,560	3,590
LA 6 - SPECIAL EDUCATION	5,670	3,060	2,840	3,320
PRACT. EXP.	790	740	810	770
TOTAL	41,750	31,520	28,730	31,860
Teacher recruitment supply				
la 1 - primary school	4,880	5,990	6,090	5,650
la 2 - primary school/sec. i	1,880	1,920	1,930	1,940
la 3 - sec. i	5,020	5,050	4,890	4,830
la 4 - sec ii (gen.)	12,720	12,200	12,280	12,370
la 5 - sec ii (voc.)	2,890	2,990	2,900	2,920
A 6 - SPECIAL EDUCATION	2,460	3,090	3,110	2,890
PRACT. EXP.	400	610	640	600
TOTAL	30,250	31,850	31,840	31,210
Balance				
la 1 - primary school	-3,260	-400	1,870	-660
LA 2 - PRIMARY SCHOOL/SEC. I	-1,360	-340	-80	-540
LA 3 - SEC. I	-4,770	-1,530	-1,770	-2,210
la 4 - sec ii (gen.)	3,100	2,840	4,650	4,020
LA 5 - SEC II (VOC.)	-1,620	-140	-1,670	-670
LA 6 - SPECIAL EDUCATION	-3,210	40	270	-440
PRACT. EXP.	-390	-130	-170	-170
TOTAL	-11,510	330	3,100	-660

- LA1 Teaching professions in primary schools or at primary level

 LA2 Overarching teaching professions at primary level and all or individual types of schools at lower secondary level

 LA3 Teaching professions at all or individual types of schools at lower secondary level

 LA4 Teaching professions at upper secondary level (general education subjects) or Gymnasium

 LA5 Teaching professions at upper secondary level (vocational subjects) or vocational schools

 LA6 Special needs teaching professions

 PRACTICAL EXPERIENCE teachers for practical experience

Pupils and pupils eligible to study acc. to Länder

	2000-	2017 -	2018	2025	2030
Total no. of pupils			Forecasts		
BADEN-WÜRTTEMBERG	1,672,158	1,522,861	1,515,000	1,542,400	1,542,400
BAVARIA	1,824,334	1,640,757	1,651,960	1,729,010	1,801,570
BERLIN	489,025	443,019	452,760	534,100	556,450
BRANDENBURG	416,858	286,082	288,870	302,530	289,330
BREMEN	99,287	92,351	93,693	100,859	102,758
HAMBURG	233,400	247,177	252,644	267,414	276,192
HESSE	888,541	815,990	814,966	828,886	852,843
MECKLENBURG-WESTERN POM-	298,814	182,204	183,334	183,474	172,362
MERANIA		102,204	1,090,400	1,059,110	1,051,400
LOWER SAXONY	1,240,744	1,106,565	2,536,700	2,491,700	2,502,900
NORTH RHINE-WESTPHALIA	2,858,818	2,501,770	524,710	519,100	524,050
RHINELAND-PALATINATE	612,343	531,594	124,430	125,210	125,370
SAARLAND	157,449	123,504	477,900	503,960	497,430
SAXONY	662,302	471,249	241,800	244,300	233,800
SAXONY-ANHALT	398,287	241,545	387,114	381,799	386,242
SCHLESWIG-HOLSTEIN	415,807	388,472	245,230	254,000	249,510
THURINGIA	373,462	242,042	8,645,280	8,677,215	8,786,775
WEST GERMAN LÄNDER	9,670,194	8,631,513	1,437,134	1,488,264	1,442,432
EAST GERMAN LÄNDER	2,149,723	1,423,122	799,097	902,373	935,400
CITY STATES	821,712	782,547	10,881,511	11,067,853	11,164,608
TOTAL	12,641,629	10,837,182	•••••••••••••••••••••••••••••••••••••••		

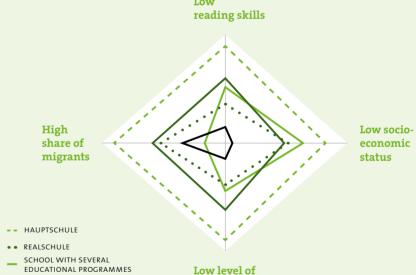
Total no. of pupils eligible to study		Forecasts			
BADEN-WÜRTTEMBERG	42,499	70,094	70,300	65,100	65,100
BAVARIA	39,620	63,833	63,940	30,780	59,190
BERLIN	14,168	19,117	18,700	22,100	22,900
BRANDENBURG	13,489	11,446	11,440	11,500	12,450
BREMEN	2,922	3,474	3,766	4,062	4,118
HAMBURG	7,673	10,890	11,191	12,306	12,315
HESSE	26,902	33,781	33,680	30,881	31,942
MECKLENBURG-WESTERN POM-	8,364	4 5,630	5,790	5,790	6,060
MERANIA			46,550	44,230	42,320
LOWER SAXONY	31,627	46,404	102,500	106,700	105,800
NORTH RHINE-WESTPHALIA	85,384	101,304	21,700	19,800	20,500
RHINELAND-PALATINATE	15,282	21,897	5,920	5,740	5,650
SAARLAND	4,367	5,539	15,400	16,100	17,200
SAXONY	19,844	14,867	6,950	6,750	7,000
SAXONY-ANHALT	12,265	6,776	14,899	14,989	15,137
SCHLESWIG-HOLSTEIN	9,556	17,530	8,730	9,050	9,580
THURINGIA	12,552	8,196	359,489	318,220	345,639
WEST GERMAN LÄNDER	255,237	360,382	48,310	49,190	52,290
EAST GERMAN LÄNDER	66,514	46,915	33,657	38,468	39,333
CITY STATES	24,763	33,481	441,456	405,878	437,262
TOTAL	346,514	440,778	•	•	



Compact data on education

Composition profiles 16 for lower secondary level school types

in 2015 acc. to selected features of the body of pupils in grade 9 and Länder groups¹⁷



- INTEGRATED COMPREHENSIVE SCHOOLS

parents'

SOURCES AND COMMENTS

- 1 Fachserie 11, Reihe 1 of the Federal Statistical Office
- 2 Statistics published by the KMK: pupils, classes, teachers and school-leavers
- 4 Share of residential population of the same age group (ratio totals method) **5** Fachserie 11, Reihe 3 of the Federal Statistical Office
- **6** Educational Finance Report 2018, 2016: provisional actual Note: Certain data is only available for individual years. 7 Fachserie 11 Reihe 4.1 of the Federal Statistical Office
- 8 Share of age-specific population
- from FS 11 R 4.3.1 **9** Federal Statistical Office 2017 (no figure available yet
- 10 The number of degrees is usually higher than that of the graduates because one person is sometimes
- 11 Federal Statistical Office, Fachserie 11, Reihe 4.2 12 Federal Statistical Office, Fachserie 11, Reihe 4.4
- 13 Statistics published by the KMK No. 213: projection
- 2016 to 2030 (May 2018)

 14 Statistics published by the KMK No. 216: Teacher recruitment demand and supply in the Federal
- Republic of Germany 2018 to 2030 summarised model calculations of the Länder 15 Rounded figures may lead to differences in the
- **16** The mean forms of selected features of the body
- differences in levels between the school types. 17 IQB educational trends 2015, weighted and imputspecial analysis of IQB

Data basis

Statistics: January 2019

Sources

Ministries of Education and Cultural Affairs of the Länder German Federal Statistical Office Bildungsfinanzbericht (Educational Finance Report) IQB (Institute for Educational Quality Improvement)

Legal notices

Secretariat of the Standing Conference of the Ministers of Education and Cultural Affairs of the Länder in the Federal Republic of Germany

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