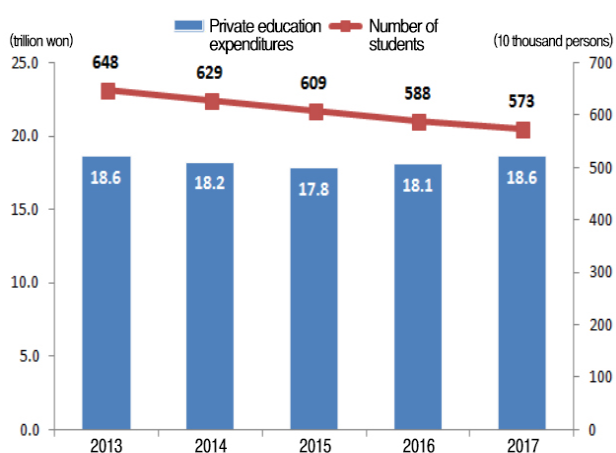


# Private Education Expenditures Survey in 2017

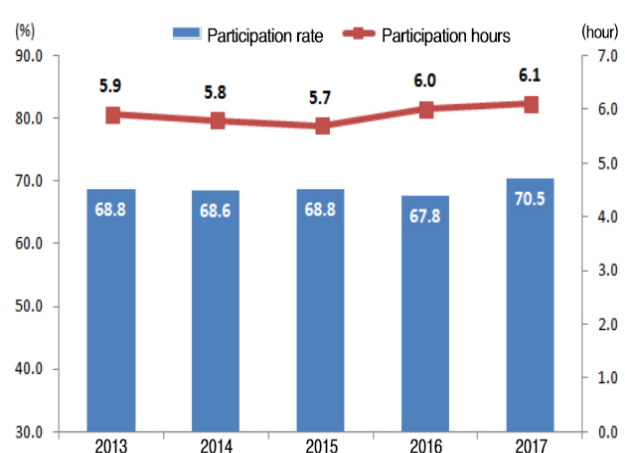
**The total private education expenditures of elementary, middle and high school students marked 18.6 trillion won in 2017, which rose by 3.1 percent from 2016. The private education participation rate stood at 70.5 percent in 2017, up 2.7%p from 2016. The weekly participation hours recorded 6.1 hours per student in 2017, which grew by 0.1 hour from 2016.**

- The total private education expenditures recorded 18.6 trillion won in 2017, which grew by 0.6 trillion won (3.1%) from 18.1 trillion won in 2016.
- Compared to 2016, the total number of students fell by 2.7 percent, while the private education participation rate and the weekly participation hours recorded an increase.
- \* Private education participation rate and participation hours: 67.8%, 6.0 hours (2016) → 70.5%, 6.1 hours (2017)

[ Total private education expenditures and total number of students ]



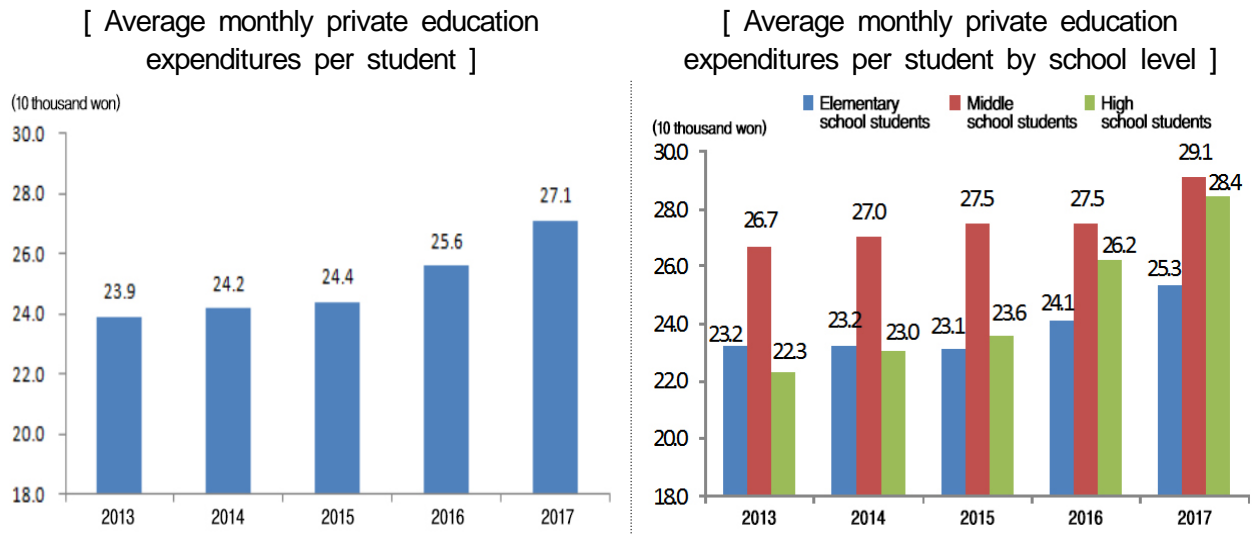
[ Private education participation rate and participation hours ]



**The average monthly private education expenditures per student increased by 5.9 percent to 271 thousand won in 2017.**

- The average monthly private education expenditures per student recorded 271 thousand won in 2017, which rose by 15 thousand won (5.9%) from 256 thousand won in 2016.
- The average monthly private education expenditures per elementary school student recorded 253 thousand won (4.8%↑, 12 thousand won). The average monthly private education expenditures per middle school student recorded 291 thousand won (5.7%↑, 16 thousand won). The average monthly private education expenditures per high school student recorded 284 thousand won (8.4%↑, 22 thousand won).

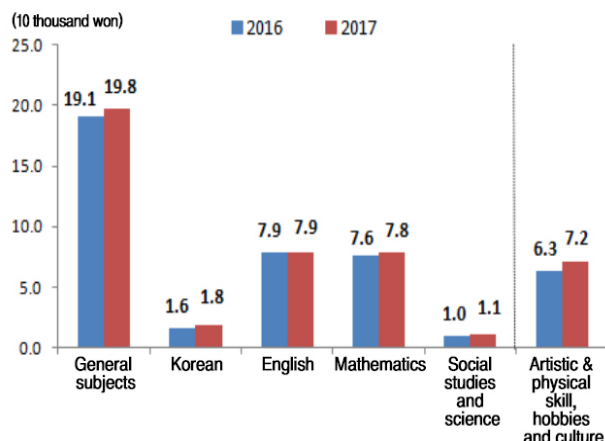
- As for the year-on-year increase (22 thousand won) in average monthly expenditures per high school student, Korean and mathematics rose 4 thousand won (19.3%↑) and 5 thousand won (4.7%↑), respectively. Physical education and 'Hobbies and culture' rose 5 thousand won (77.4%↑) and 3 thousand won (54.9%↑), respectively.



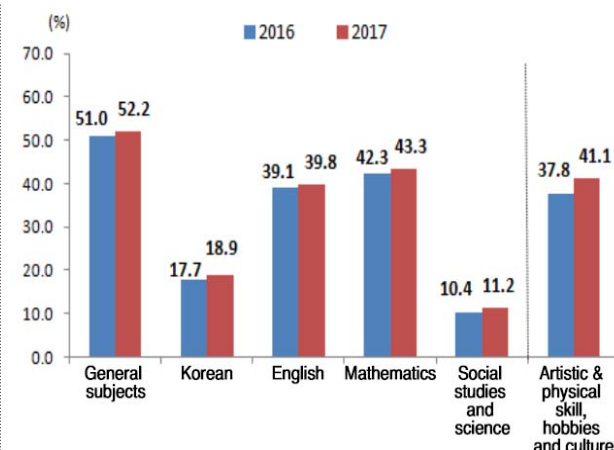
**The average monthly private education expenditures on general subjects amounted to 198 thousand won per student in 2017, up 3.4 percent from 2016. The average monthly private education expenditures on artistic & physical skills, hobbies and culture amounted to 72 thousand won per student in 2017, which rose by 12.9 percent from 2016.**

- The average monthly private education expenditures per student on Korean increased by 2 thousand won (14.2%) to 18 thousand won in 2017. The average monthly private education expenditures per student on mathematics increased by 3 thousand won (3.3%) to 78 thousand won in 2017. The average monthly private education expenditures per student on English increased by 0.4 thousand won (0.5%) to 79 thousand won in 2017.
- The average monthly private education expenditures on physical education rose by 4 thousand won (17.0%) to 28 thousand won in 2017. The average monthly private education expenditures on art rose by 1 thousand won (10.3%) to 11 thousand won in 2017. The average monthly private education expenditures on music rose by 1 thousand won (5.3%) to 24 thousand won in 2017.
- The private education participation rate of general subjects stood at 52.2 percent, up 1.2%p from 2016. The private education participation rate of artistic & physical skills, hobbies and culture stood at 41.1 percent, up 3.3%p from 2016.

[ Average monthly private education expenditures per student by subject ]



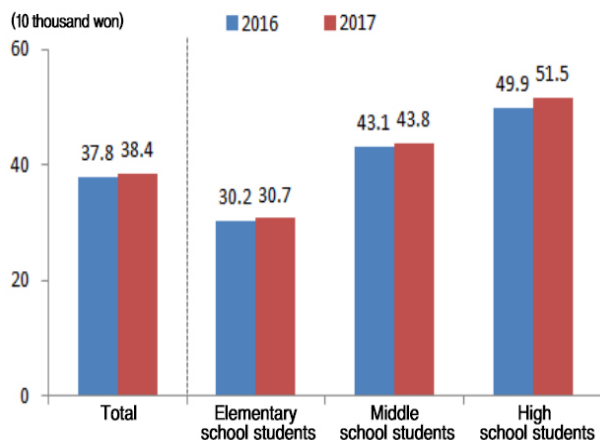
[ Private education participation rate by subject ]



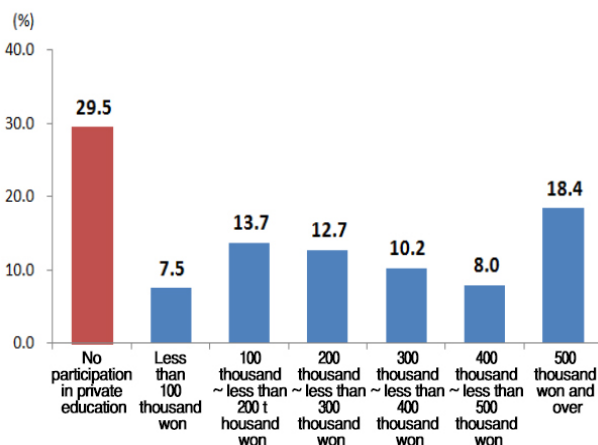
**The average monthly private education expenditures per participation student increased by 1.8 percent to 384 thousand won in 2017. Students spending 500 thousand won and over on a monthly average occupied the largest share.**

- The average monthly private education expenditures per participation student recorded 384 thousand won in 2017, which rose by 7 thousand won (1.8%) from 378 thousand won in 2016.
- The average monthly private education expenditures per elementary school student recorded 307 thousand won (1.8%↑, 5 thousand won). The average monthly private education expenditures per middle school student recorded 438 thousand won (1.7%↑, 7 thousand won). The average monthly private education expenditures per high school student recorded 515 thousand won (3.2%↑, 16 thousand won).
- Students spending 500 thousand won and over per month on private education occupied the largest share at 18.4 percent, which was followed by students spending 100 thousand ~ less than 200 thousand won (13.7%) and students spending 200 thousand ~ less than 300 thousand won (12.7%).

[ Average monthly private education expenditures per participation student ]



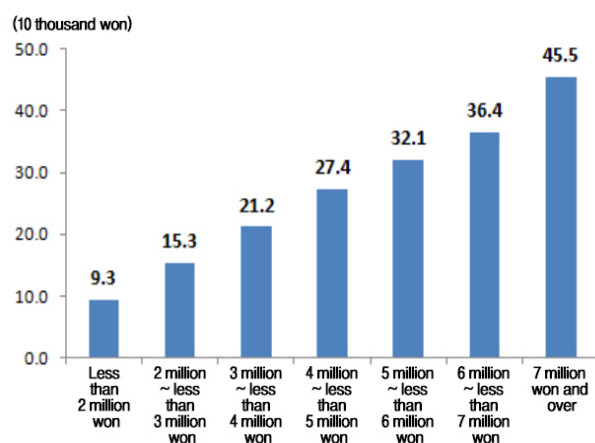
[ Share of students by size of private education expenditures ]



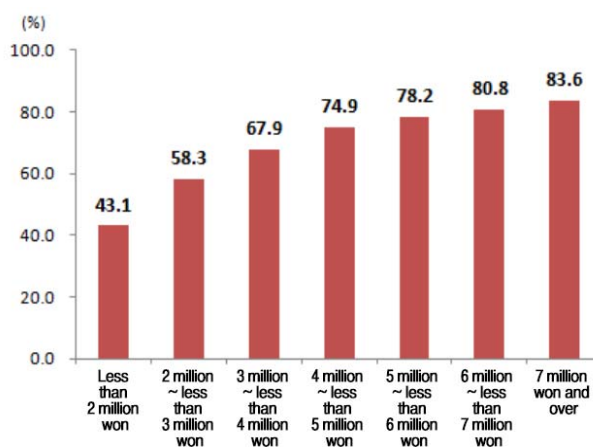
**The higher household income level, the higher education expenditures and participation rate.**

- The average monthly expenditures per student for households earning 7 million won and over marked the highest figure of 455 thousand won. The average monthly expenditures per student for households earning less than 2 million won marked 93 thousand won.
- The participation rate of households earning 7 million won and over marked the highest figure at 83.6 percent. The participation rate of households earning less than 2 million won marked the lowest figure at 43.1 percent.

[ Average monthly private education expenditures per student by household income ]



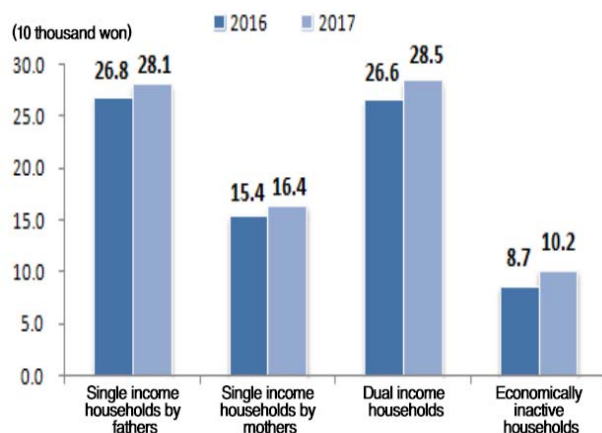
[ Private education participation rate by household income ]



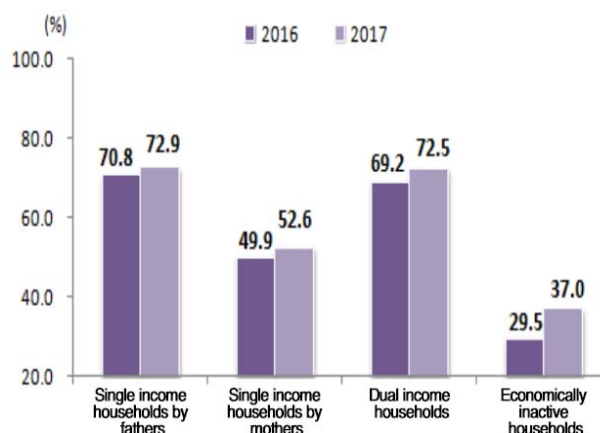
**'Dual income households' recorded the highest private education expenditures and 'Single income households by fathers' recorded the highest the participation rate.**

- The average monthly expenditures per student of 'Dual income households' recorded the highest figure of 285 thousand won, which was followed by 'Single income households by fathers' (281 thousand won) and 'Single income households by mothers' (164 thousand won).
- As for 'Dual income households', the average monthly expenditures rose by 7.3 percent from 2016, and the participation rate went up by 3.3%p to 72.5 percent in 2017. As for 'Single income households by fathers', the average monthly expenditures rose by 4.7 percent from 2016, and the participation rate went up by 2.1%p to 72.9 percent in 2017.

[ Average monthly private education expenditures per student by parents' economic activity ]



[ Private education participation rate by parents' economic activity ]



As for private education of general subjects by purpose, 'Makeup for classes' showed an increase. Whereas, 'Study in advance' and 'Preparation for higher school level' showed a decrease.

- As for general subjects, 48.8 percent of students participated in private education for the purpose of 'Makeup for classes' (4.7%p↑), which was followed by 'Study in advance' (20.9%, 4.3%p↓) and 'Preparation for higher school level' (17.0%, 1.5%p↓).
- As for elementary and middle school students, 'Makeup for classes' occupied the highest share, which was followed by 'Study in advance'. As for high school students, 'Makeup for classes' occupied the highest share, which was followed by 'Preparation for higher school level'

< Private education of general subjects by purpose >

(Unit: %, %p)

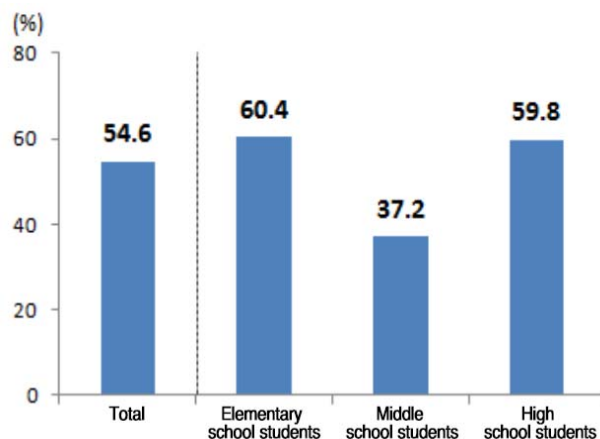
Classification		Preparation for higher school level	Study in advance	Makeup for classes	Others including child care, anxiety and, etc.
Total	2016	18.5	25.3	44.1	12.1
	<b>2017</b>	<b>17.0</b>	<b>20.9</b>	<b>48.8</b>	<b>13.2</b>
	Change from the previous year	<b>-1.5</b>	<b>-4.3</b>	<b>4.7</b>	<b>1.1</b>
School level	Elementary school	8.9	21.9	49.0	20.3
	Middle school	19.3	23.4	49.8	7.5
	High school	31.2	16.3	47.4	5.2

\* Purposes are multiple response items. Respective response items were converted with the total responses = 100.

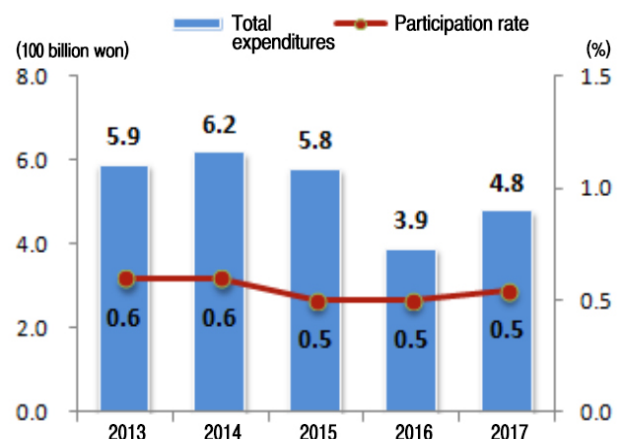
**The after-school program participation rate of elementary and middle school students rose by 1.5%p and 2.3%p, respectively. Whereas, the after-school program participation rate of high school students declined by 8.6%p.**

- The paid and free after-school program participation rate stood at 54.6 percent, down 1.2%p from 2016. The after-school program participation rate of elementary school students recorded 60.4 percent, up 1.5%p from 2016. The after-school program participation rate of middle school students recorded 37.2 percent, up 2.3%p from 2016. The after-school program participation rate of high school students recorded 59.8 percent, down 8.6%p from 2016.
- The expenditures on after-school programs totaled 1,020 billion won, decreasing by 100 billion won (8.9%↓) from 2016.
- The expenditures on language courses totaled 480 billion won, increasing by 90 billion won (23.9%↑) from 2016. The language course participation rate recorded 0.5 percent, remaining the same as 2016.

[ After-school program participation rate ]



[ Total expenditures on language courses and participation rate ]





# 1 Results of the Private Education Expenditures Survey

## 1. Total private education expenditures

**The total private education expenditures of elementary, middle and high school students recorded 18.6 trillion won in 2017.**

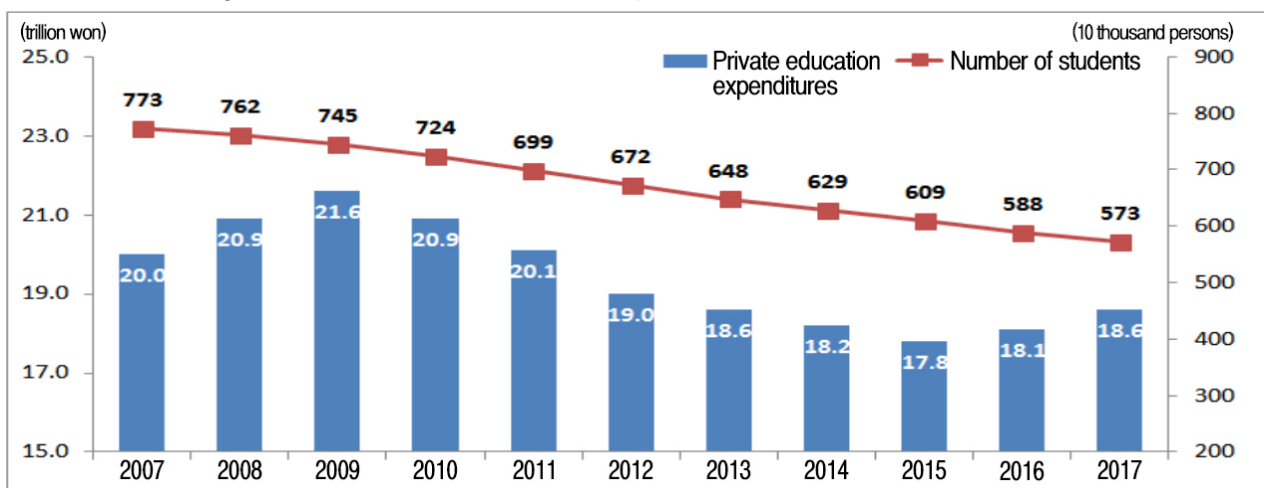
- The total private education expenditures of elementary, middle and high school students recorded 18.6 trillion won in 2017, which grew by 3.1 percent from 18.1 trillion won in 2016.
- The private education expenditures of elementary, middle and high school students amounted to 8.1 trillion won, 4.8 trillion won and 5.7 trillion won in 2017, respectively.
- Compared to the previous year, the private education expenditures of elementary, middle and high school students grew by 4.9 percent, 0.2 percent and 3.2 percent, respectively.

< Table 1 > Private education expenditures

(Unit: 100 million won, %)

Classification	2013	2014	Percent change from the previous year	2015	Percent change from the previous year	2016	Percent change from the previous year	2017	Percent change from the previous year
<b>Total</b>	<b>185,960</b>	<b>182,297</b>	<b>-2.0</b>	<b>178,346</b>	<b>-2.2</b>	<b>180,606</b>	<b>1.3</b>	<b>186,223</b>	<b>3.1</b>
Elementary school	77,375	75,949	-1.8	75,287	-0.9	77,438	2.9	81,195	4.9
Middle school	57,831	55,678	-3.7	52,384	-5.9	48,102	-8.2	48,181	0.2
High school	50,754	50,671	-0.2	50,675	0.0	55,065	8.7	56,847	3.2

< Figure 1 > Private education expenditures and number of students



## 2. Average monthly private education expenditures per student, participation rate and participation hours

**The average monthly private education expenditures per student recorded 271 thousand won in 2017. The private education participation rate stood at 70.5 percent in 2017.**

- The average monthly private education expenditures per student recorded 271 thousand won in 2017, which rose by 15 thousand won (5.9%) from 256 thousand won in 2016.
- The average monthly expenditures per middle school student amounted to 291 thousand won, which was followed by high school students (284 thousand won) and elementary school students (253 thousand won).
- Compared to 2016, the average monthly expenditures per elementary, middle and high school student grew by 4.8 percent, 5.7 percent and 8.4 percent, respectively.

< Table 2 > Average monthly private education expenditures per student

(Unit: 10 thousand won, %)

Classification	2013	2014	Percent change from the previous year	2015	Percent change from the previous year	2016	Percent change from the previous year	2017	Percent change from the previous year
<b>Total</b>	<b>23.9</b>	<b>24.2</b>	<b>1.1</b>	<b>24.4</b>	<b>1.0</b>	<b>25.6</b>	<b>4.8</b>	<b>27.1</b>	<b>5.9</b>
Elementary school	23.2	23.2	0.0	23.1	-0.4	24.1	4.5	25.3	4.8
Middle school	26.7	27.0	1.2	27.5	1.9	27.5	-0.1	29.1	5.7
High school	22.3	23.0	2.9	23.6	2.9	26.2	10.9	28.4	8.4

- The average monthly private education expenditures per participation student recorded 384 thousand won in 2017, which rose by 7 thousand won (1.8%) from 378 thousand won in 2016.
- The average monthly expenditures per high school student recorded the highest figure of 515 thousand won, which was followed by middle school students (438 thousand won) and elementary school students (307 thousand won). The higher school level, the higher expenditures.
- Compared to 2016, the average monthly expenditures per elementary, middle and high school student grew by 1.8 percent, 1.7 percent and 3.2 percent, respectively.

< Table 3 > Average monthly private education expenditures per participation student

(Unit: 10 thousand won, %)

Classification	2013	2014	Percent change from the previous year	2015	Percent change from the previous year	2016	Percent change from the previous year	2017	Percent change from the previous year
<b>Total</b>	<b>34.7</b>	<b>35.2</b>	<b>1.5</b>	<b>35.5</b>	<b>0.7</b>	<b>37.8</b>	<b>6.4</b>	<b>38.4</b>	<b>1.8</b>
Elementary school	28.3	28.6	1.0	28.6	0.1	30.2	5.5	30.7	1.8
Middle school	38.4	39.1	1.8	39.7	1.6	43.1	8.6	43.8	1.7
High school	45.4	46.4	2.2	47.1	1.4	49.9	6.1	51.5	3.2

- The private education participation rate stood at 70.5 percent, up 2.7%p from 2016.
- The participation rate of elementary school students recorded the highest figure. The higher school level, the lower participation rate.
- Elementary school: 82.3% → Middle school: 66.4% → High school: 55.0%
- Compared to 2016, the participation rate of elementary, middle and high school students went up by 2.4%p, 2.5%p and 2.6%p, respectively.

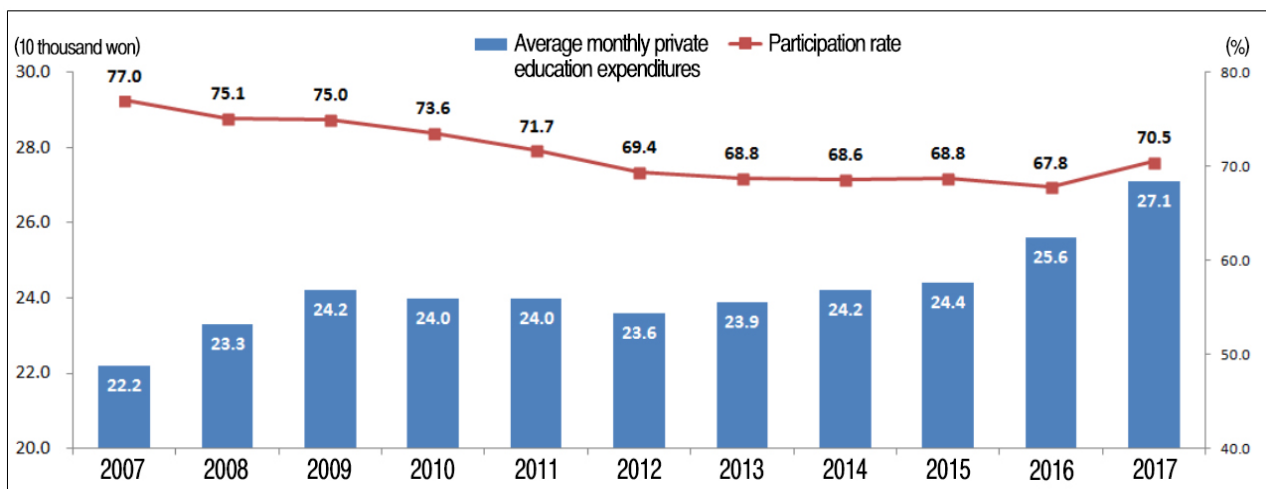


< Table 4 > Private education participation rate

(Unit: %, %p)

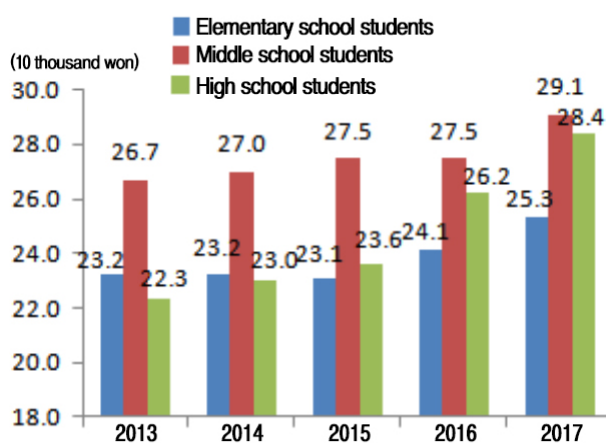
Classification	2013	2014	Change from the previous year	2015	Change from the previous year	2016	Change from the previous year	2017	Change from the previous year
<b>Total</b>	<b>68.8</b>	<b>68.6</b>	<b>-0.2</b>	<b>68.8</b>	<b>0.2</b>	<b>67.8</b>	<b>-1.0</b>	<b>70.5</b>	<b>2.7</b>
Elementary school	81.8	81.1	-0.7	80.7	-0.4	80.0	-0.8	82.3	2.4
Middle school	69.5	69.1	-0.4	69.4	0.2	63.8	-5.5	66.4	2.5
High school	49.2	49.5	0.3	50.2	0.7	52.4	2.3	55.0	2.6

< Figure 2 > Average monthly private education expenditures per student and participation rate

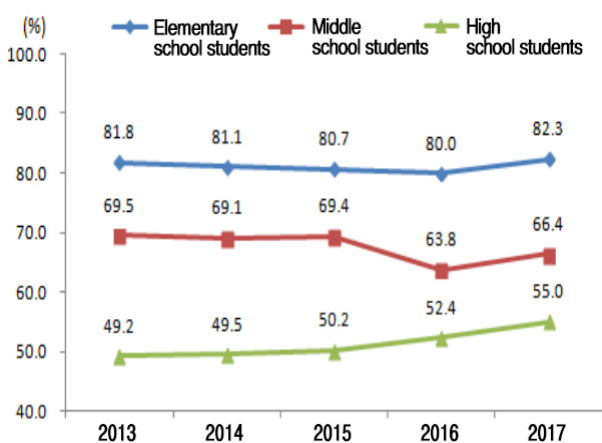


< Figure 3 > Average monthly private education expenditures per student and participation rate

< Average monthly private education expenditures per student >



< Private education participation rate >



**The weekly participation hours recorded 6.1 hours per student in 2017.**

- ☐ The weekly participation hours recorded 6.1 hours per student, which grew by 0.1 hour from the previous year.

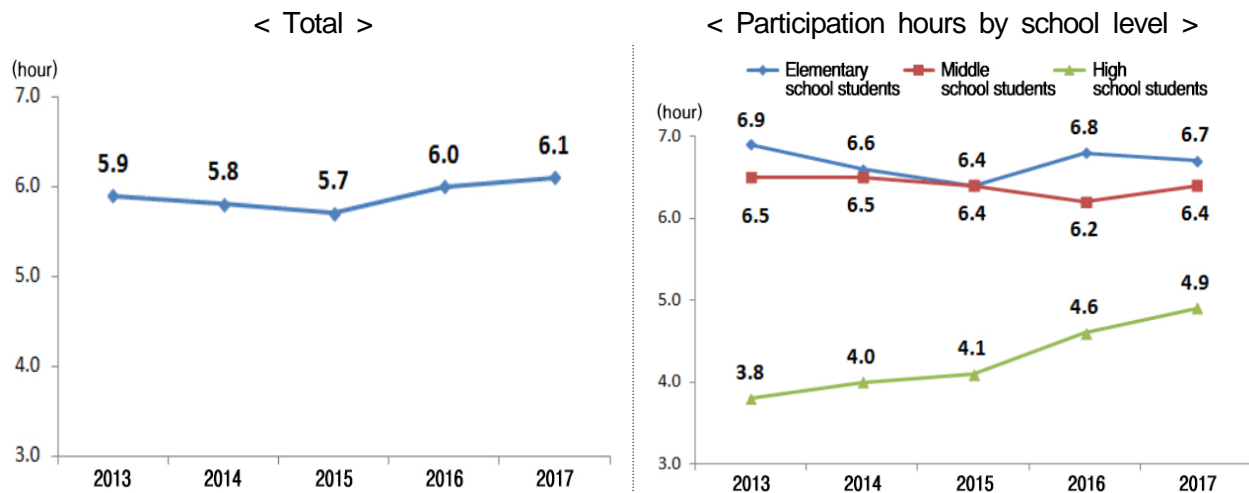
- The weekly participation hours of elementary, middle and high school students recorded 6.7 hours, 6.4 hours and 4.9 hours, respectively.
- Compared to 2016, the weekly participation hours of middle and high school students grew by 0.1 hour and 0.3 hour, respectively. Whereas, the weekly participation hours of elementary students fell by 0.2 hour.

< Table 5 > Participation hours per week

(Unit: hour)

Classification	2013	2014	Change from the previous year	2015	Change from the previous year	2016	Change from the previous year	2017	Change from the previous year
<b>Total</b>	<b>5.9</b>	<b>5.8</b>	<b>-0.1</b>	<b>5.7</b>	<b>-0.1</b>	<b>6.0</b>	<b>0.3</b>	<b>6.1</b>	<b>0.1</b>
Elementary school	6.9	6.6	-0.3	6.4	-0.2	6.8	0.4	6.7	-0.2
Middle school	6.5	6.5	0.0	6.4	-0.1	6.2	-0.2	6.4	0.1
High school	3.8	4.0	0.2	4.1	0.1	4.6	0.5	4.9	0.3

< Figure 4 > Participation hours per week



### 3. Private education expenditures and participation rate by subject

The average monthly private education expenditures on general subjects amounted to 198 thousand won per student in 2017, which rose by 3.4 percent from 2016. The average monthly private education expenditures on artistic & physical skills, hobbies and culture amounted to 72 thousand won per student in 2017, which rose by 12.9 percent from 2016.

- The average monthly private education expenditures on general subjects increased by 3.4 percent to 198 thousand won in 2017. The average monthly private education expenditures on artistic & physical skills, hobbies and culture increased by 12.9 percent to 72 thousand won in 2017.
- Compared to 2016, the private education expenditures of Korean, English, mathematics and 'Social studies and science' rose by 14.2 percent, 0.5 percent, 3.3 percent and 8.5 percent, respectively.
- The private education participation rate of general subjects stood at 52.2 percent, up 1.2%p from 2016. The private education participation rate of artistic & physical skills, hobbies and culture stood at 41.1 percent, up 3.3%p from 2016.

- Compared to 2016, the private education participation rate of Korean, English, mathematics and 'Social studies and science' rose by 1.3%p, 0.6%p, 1.0%p and 0.8%p, respectively.

< Table 6 > Average monthly private education expenditures per student and participation rate by subject

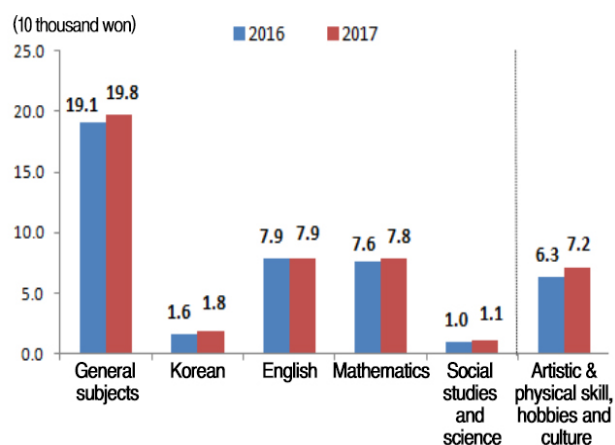
Classification	Private education expenditures (10 thousand won, %)						
	Total	General subjects	Korean	English	Mathematics	Social studies and science	Artistic & physical skills, hobbies and culture
<b>2016</b>	<b>25.6</b>	<b>19.1</b>	<b>1.6</b>	<b>7.9</b>	<b>7.6</b>	<b>1.0</b>	<b>6.3</b>
<b>2017</b>	<b>27.1</b>	<b>19.8</b>	<b>1.8</b>	<b>7.9</b>	<b>7.8</b>	<b>1.1</b>	<b>7.2</b>
Year-on-year	5.9	3.4	14.2	0.5	3.3	8.5	12.9
Elementary school	25.3	14.6	1.4	6.7	4.3	0.8	10.7
Middle school	29.1	25.5	1.5	10.5	11.1	1.4	3.5
High school	28.4	23.3	2.7	7.7	10.9	1.2	4.5

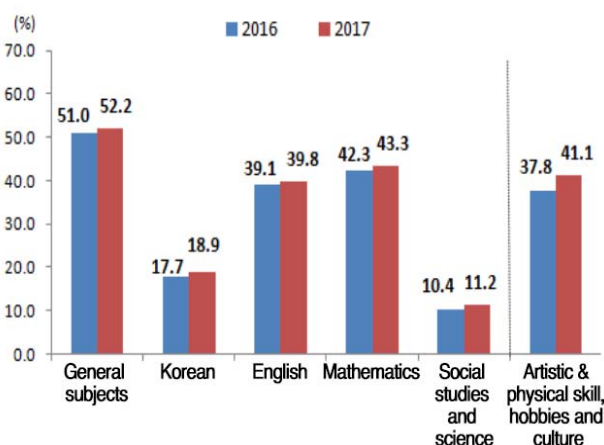
Classification	Participation rate (% , %p)						
	Total	General subjects	Korean	English	Mathematics	Social studies and science	Artistic & physical skills, hobbies and culture
<b>2016</b>	<b>67.8</b>	<b>51.0</b>	<b>17.7</b>	<b>39.1</b>	<b>42.3</b>	<b>10.4</b>	<b>37.8</b>
<b>2017</b>	<b>70.5</b>	<b>52.2</b>	<b>18.9</b>	<b>39.8</b>	<b>43.3</b>	<b>11.2</b>	<b>41.1</b>
Year-on-year	2.7	1.2	1.3	0.6	1.0	0.8	3.3
Elementary school	82.3	54.8	25.2	40.5	42.6	13.6	66.8
Middle school	66.4	57.5	14.2	49.8	52.3	12.6	24.2
High school	55.0	43.4	12.9	30.2	36.8	6.3	14.1

< Figure 5 > Average monthly private education expenditures per student and participation rate by subject

< Average monthly private education expenditures per student >



< Participation rate >



#### 4. Private education expenditures and participation rate by type

- As for general subjects, the average monthly expenditures per student on 'Taking lessons at private academic institutes' recorded the highest figure of 132 thousand won, which was followed by 'One-on-one tutoring' (28 thousand won), 'Group tutoring' (21 thousand won) and 'Textbooks with tutor's visit' (11 thousand won).

- As for general subjects, the participation rate of 'Taking lessons at private academic institutes' recorded the highest figure of 36.4 percent, which was followed by 'Textbooks with tutor's visit' at 12.3 percent, 'Group tutoring' at 9.3 percent and 'One-on-one tutoring' at 8.7 percent.
- As for artistic & physical skills, hobbies and culture, the average monthly expenditures per student on 'Taking lessons at private academic institutes' recorded the highest figure of 50 thousand won, which was followed by 'One-on-one tutoring' (12 thousand won).
- As for artistic & physical skills, hobbies and culture, the participation rate of 'Taking lessons at private academic institutes' recorded the highest figure of 31.3 percent, which was followed by 'One-on-one tutoring' at 5.8 percent.

< Table 7-1 > Average monthly private education expenditures per student by type

(Unit: 10 thousand won, %)

Classification	2016	2017	Percent change from the previous year	Elementary school	Middle school	High school
<b>Total</b>	<b>25.6</b>	<b>27.1</b>	<b>5.9</b>	<b>25.3</b>	<b>29.1</b>	<b>28.4</b>
- <b>General subjects</b>	<b>19.1</b>	<b>19.8</b>	<b>3.4</b>	<b>14.6</b>	<b>25.5</b>	<b>23.3</b>
One-on-one tutoring	3.1	2.8	-9.4	1.2	3.4	4.9
Group tutoring	1.9	2.1	11.2	1.7	2.7	2.4
Taking lessons at private academic institutes	12.6	13.2	4.9	9.0	18.6	15.6
Textbooks with tutor's visit	1.1	1.1	7.2	2.1	0.5	0.1
Internet and correspondence lectures	0.4	0.5	6.7	0.6	0.3	0.3
- <b>Artistic &amp; physical skills, hobbies and culture</b>	<b>6.3</b>	<b>7.2</b>	<b>12.9</b>	<b>10.7</b>	<b>3.5</b>	<b>4.5</b>
One-on-one tutoring	1.0	1.2	13.6	1.2	1.0	1.3
Group tutoring	0.4	0.5	30.6	0.9	0.3	0.2
Taking lessons at private academic institutes	4.6	5.0	9.8	7.9	2.0	2.9
Tutor's visit, etc.	0.3	0.4	32.2	0.7	0.2	0.1

< Table 7-2 > Participation rate by type

(Unit: %, %p)

Classification	2016	2017	Change from the previous year	Elementary school	Middle school	High school
<b>Total</b>	<b>67.8</b>	<b>70.5</b>	<b>2.7</b>	<b>82.3</b>	<b>66.4</b>	<b>55.0</b>
- <b>General subjects</b>	<b>51.0</b>	<b>52.2</b>	<b>1.2</b>	<b>54.8</b>	<b>57.5</b>	<b>43.4</b>
One-on-one tutoring	9.6	8.7	-0.9	6.5	10.1	11.1
Group tutoring	8.8	9.3	0.5	10.7	10.0	6.6
Taking lessons at private academic institutes	35.8	36.4	0.6	33.8	46.3	32.4
Textbooks with tutor's visit	11.9	12.3	0.5	22.9	5.8	0.7
Internet and correspondence lectures	5.1	5.2	0.1	7.4	3.3	3.3
- <b>Artistic &amp; physical skills, hobbies and culture</b>	<b>37.8</b>	<b>41.1</b>	<b>3.3</b>	<b>66.8</b>	<b>24.2</b>	<b>14.1</b>
One-on-one tutoring	5.7	5.8	0.1	7.8	5.1	3.0
Group tutoring	4.1	4.9	0.8	8.1	3.3	1.0
Taking lessons at private academic institutes	29.2	31.3	2.1	53.7	14.4	9.5
Tutor's visit, etc.	5.3	6.0	0.7	10.4	3.1	1.2

## 5. Average monthly private education expenditures by size

**Students spending 500 thousand won and over per month on private education occupied the largest share.**

- Students spending 500 thousand won and over per month on private education occupied the largest share at 18.4 percent. Students spending 100 thousand to less than 200 thousand won on private education accounted for 13.7 percent. Students spending 200 thousand to less than 300 thousand won on private education accounted for 12.7 percent.
- In Seoul, metropolitan cities and cities, students spending 500 thousand won and over on private education occupied the largest share. In Eup & Myeon, students spending 100 thousand to less than 200 thousand won on private education occupied the largest share.
- In Seoul, students spending 500 thousand won and over on private education occupied 32.0 percent, while in Eup & Myeon, students spending 500 thousand won and over on private education occupied 7.6 percent.
- Private education participation students showed a year-on-year increase in all student groups excluding students spending '300 thousand ~ less than 400 thousand won' and students spending '400 thousand ~ less than 500 thousand won'.

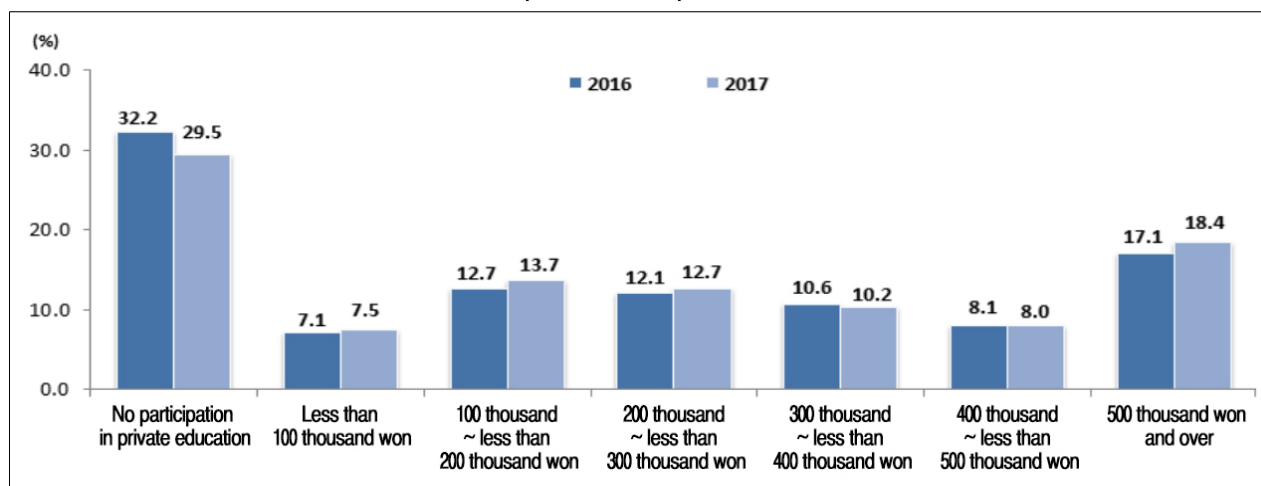
< Table 8 > Share of private education participation students by size of expenditures per student

(Unit: %, %p)

Classification		Total	No participation in private education	Less than 100 thousand won	100 thousand ~ less than 200 thousand won
Total	2016	100.0	32.2	7.1	12.7
	<b>2017</b>	<b>100.0</b>	<b>29.5</b>	<b>7.5</b>	<b>13.7</b>
	Change from the previous year	-	-2.7	0.4	1.0
Region	Seoul	100.0	23.3	6.4	10.7
	Metropolitan cities	100.0	29.1	8.1	13.4
	Cities*	100.0	28.9	7.1	14.0
	Eup and Myeon	100.0	38.3	8.7	16.7
Classification		200 thousand ~ less than 300 thousand won	300 thousand ~ less than 400 thousand won	400 thousand ~ less than 500 thousand won	500 thousand won and over
Total	2016	12.1	10.6	8.1	17.1
	<b>2017</b>	<b>12.7</b>	<b>10.2</b>	<b>8.0</b>	<b>18.4</b>
	Change from the previous year	0.5	-0.4	-0.1	1.3
Region	Seoul	10.4	9.1	8.0	32.0
	Metropolitan cities	12.3	10.3	8.6	18.1
	Cities*	13.5	10.9	8.4	17.3
	Eup and Myeon	13.3	9.5	5.8	7.6

\* Cities: Dong in cities excluding Seoul and 6 metropolitan cities

< Figure 6 > Share of private education participation students by size of expenditures per student



## 6. Private education expenditures and participation rate by household income

**The higher household income level, the higher education expenditures and participation rate.**

- The average monthly expenditures per student for households earning 7 million won and over marked 455 thousand won. The average monthly expenditures per student for households earning less than 2 million won marked 93 thousand won.
- The average monthly expenditures per student showed a rise for all household groups excluding households earning '2 million ~ less than 3 million won' and households earning '6 million ~ less than 7 million won'.
- The participation rate of households earning 7 million won and over stood at 83.6 percent. The participation rate of households earning less than 2 million won stood at 43.1 percent.

< Table 9 > Average monthly private education expenditures per student and participation rate by household income

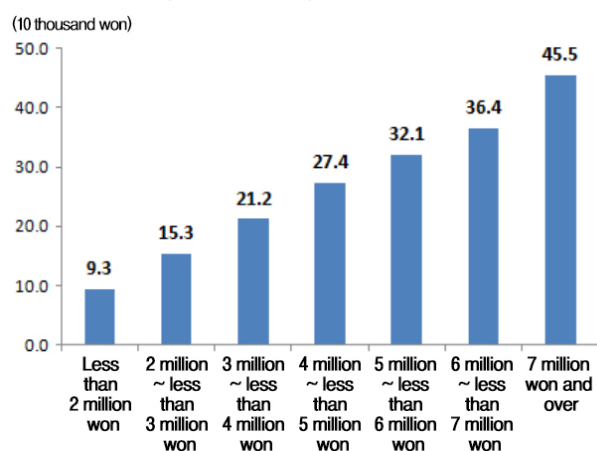
Classification	Private education expenditures (10 thousand won, %)			Participation rate (%, %p)		
	2016	2017	Percent change from the previous year	2016	2017	Change from the previous year
<b>Total</b>	25.6	27.1	5.9	67.8	70.5	2.7
Less than 2 million won	8.8	9.3	5.5	40.2	43.1	2.9
2 million ~ less than 3 million won	15.4	15.3	-1.0	56.2	58.3	2.1
3 million ~ less than 4 million won	21.1	21.2	0.7	67.1	67.9	0.9
4 million ~ less than 5 million won	26.5	27.4	3.5	73.1	74.9	1.9
5 million ~ less than 6 million won	31.0	32.1	3.7	76.1	78.2	2.1
6 million ~ less than 7 million won	36.5	36.4	-0.3	80.1	80.8	0.7
7 million won and over*	44.3	45.5	2.8	81.9	83.6	1.7
7 million ~ less than 8 million won		40.5			82.9	
8 million won and over		48.2			83.9	

\* From 2017, the highest income category changed from '7 million won and over' to '8 million won and over'.

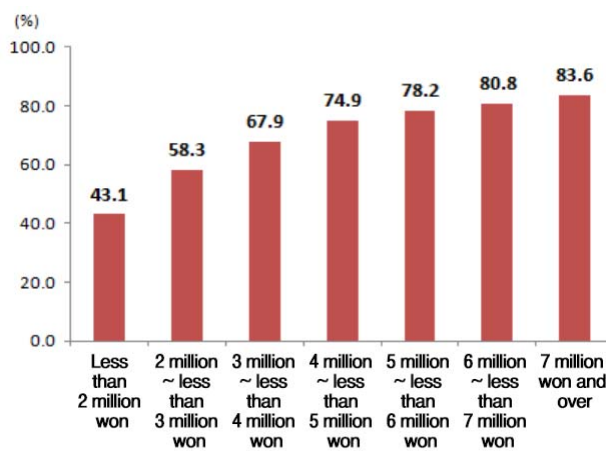


< Figure 7 > Average monthly private education expenditures per student and participation rate by household income

< Average monthly private education expenditures per student >



< Private education participation rate >



## 7. Private education expenditures and participation rate by parents' economic activity

**'Dual income households' recorded the highest private education expenditures. 'Single income households by fathers' recorded the highest participation rate.**

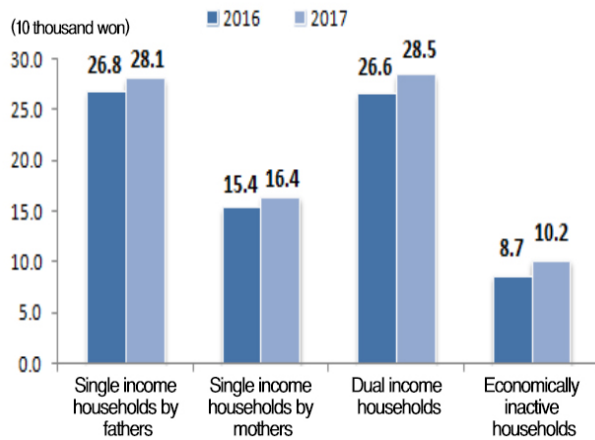
- The average monthly expenditures per student of 'Dual income households' recorded the highest figure of 285 thousand won, which was followed by 'Single income households by fathers' (281 thousand won) and 'Single income households by mothers' (164 thousand won).
- As for 'Dual income households', the average monthly expenditures rose by 7.3 percent from 2016, and the participation rate went up by 3.3%p to 72.5 percent in 2017. As for 'Single income households by fathers', the average monthly expenditures rose by 4.7 percent from 2016, and the participation rate went up by 2.1%p to 72.9 percent in 2017.

< Table 10 > Average monthly private education expenditures per student and participation rate by parents' economic activity

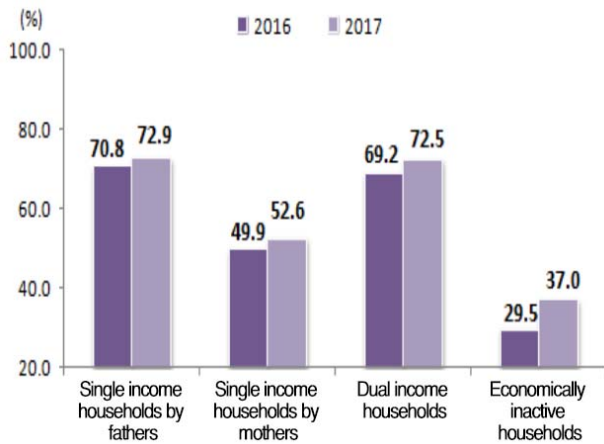
Classification	Private education expenditures (10 thousand won, %)			Participation rate (%, %p)		
	2016	2017	Percent change from the previous year	2016	2017	Change from the previous year
Total	25.6	27.1	5.9	67.8	70.5	2.7
- Single income households	25.2	26.2	4.2	67.8	69.6	1.9
Father	26.8	28.1	4.7	70.8	72.9	2.1
Mother	15.4	16.4	6.7	49.9	52.6	2.7
- Dual income households	26.6	28.5	7.3	69.2	72.5	3.3
- Economically inactive households	8.7	10.2	17.2	29.5	37.0	7.5

< Figure 8 > Average monthly private education expenditures per student and participation rate by parents' economic activity

< Average monthly private education expenditures per student >



< Private education participation rate >



## 8. Private education expenditures and participation rate by school performance

**The higher school performance, the higher average monthly private education expenditures and participation rate.**

- The average monthly expenditures of students recording 'within top 10 percent' of school performance amounted to 342 thousand won, while those of students recording 'within bottom 20 percent' of school performance amounted to 192 thousand won.
- The participation rate of students recording 'within top 10 percent' of school performance stood at 78.7 percent. In the meantime, the participation rate of students recording 'within bottom 20 percent' of school performance stood at 59.6 percent.

< Table 11 > Average monthly private education expenditures per student and participation rate by school performance

Classification	Private education expenditures (10 thousand won, %)			Participation rate (%, %p)		
	2016	2017	Percent change from the previous year	2016	2017	Change from the previous year
<b>Total</b>	<b>25.6</b>	<b>27.1</b>	<b>5.9</b>	<b>67.8</b>	<b>70.5</b>	<b>2.7</b>
Within top 10 percent	32.9	34.2	4.0	77.8	78.7	0.8
11 ~ 30%	30.2	32.0	6.1	74.9	77.1	2.2
31 ~ 60%	26.9	28.2	4.5	69.7	72.4	2.7
61 ~ 80%	23.1	24.8	7.2	64.3	67.7	3.4
81~ 100%	17.5	19.2	9.4	55.9	59.6	3.7

## 9. Private education expenditures by number of children

**The lower number of children, the higher private education expenditures.**

- The average monthly expenditures per student of households with 1 child showed the highest figure of 293 thousand won, which was followed by households with 2 children (290 thousand won) and households with 3 children or more (208 thousand won).

< Table 12 > Average monthly private education expenditures  
per student by number of children

(Unit: 10 thousand won)

Classification	Total	Elementary school	Middle school	High school
Total	27.1	25.3	29.1	28.4
1 child	29.3	28.3	32.1	28.7
2 children	29.0	26.7	31.0	31.0
3 children or more	20.8	19.9	22.5	20.9

## 10. Private education by purpose

**Students participating in the private education of general subjects for the purpose of 'Makeup for classes' showed an increase. Whereas, 'Study in advance' and 'Preparation for higher school level' showed a decrease.**

- ☐ As for general subjects, 48.8 percent of students participated in private education for the purpose of 'Makeup for classes', which was followed by 'Study in advance' (20.9%) and 'Preparation for higher school level' (17.0%).
- ☐ As for elementary school students, 'Makeup for classes' occupied the largest share, which was followed by 'Study in advance' and 'Child care and anxiety'.
- ☐ As for middle school students, 'Makeup for classes' occupied the largest share, which was followed by 'Study in advance' and 'Preparation for higher school level'.
- ☐ As for high school students, 'Makeup for classes' occupied the largest share, which was followed by 'Preparation for higher school level' and 'Study in advance'.

< Table 13 > Private education of general subjects by purpose

(Unit: %, %p)

Classification		Preparation for higher school level	Study in advance	Makeup for classes	Others including child care, anxiety and, etc.
Total	2016	18.5	25.3	44.1	12.1
	<b>2017</b>	<b>17.0</b>	<b>20.9</b>	<b>48.8</b>	<b>13.2</b>
	Change from the previous year	-1.5	-4.3	4.7	1.1
School level	Elementary school	8.9	21.9	49.0	20.3
	Middle school	19.3	23.4	49.8	7.5
	High school	31.2	16.3	47.4	5.2

\* Purposes are multiple response items. Respective response items were converted with the total responses = 100.

- ☐ The largest share of students participated in the private education of artistic & physical skills, hobbies and culture for the purpose of 'Hobbies, culture and development of ability' (58.6%).
- ☐ As for elementary and middle school students, 'Hobbies, culture and development of ability' occupied the largest share. As for high school students, 'Preparation for higher school level' occupied the largest share, which was followed by 'Hobbies, culture and development of ability'.

< Table 14 > Private education of artistic & physical skills, hobbies and culture by purpose

(Unit: %, %p)

Classification		Preparation for higher school level	Makeup for classes	Hobbies, culture and development of ability	To make friends	Child care and others
Total	2016	9.6	7.2	59.8	9.0	14.4
	<b>2017</b>	<b>9.8</b>	<b>9.4</b>	<b>58.6</b>	<b>9.1</b>	<b>13.1</b>
	Change from the previous year	<b>0.2</b>	<b>2.2</b>	<b>-1.2</b>	<b>0.1</b>	<b>-1.3</b>
School level	Elementary school	3.7	10.2	59.6	10.4	16.1
	Middle school	17.5	6.8	65.4	6.7	3.6
	High school	48.1	6.9	41.9	1.7	1.4

\* Purposes are multiple response items. Respective response items were converted with the total responses = 100.

## 11. Private education expenditures and participation rate by region

### (1) Private education expenditures and participation rate by area

**Seoul showed the highest figures of private education expenditures and the participation rate.**

- ☐ As for the average monthly expenditures per student by region, Seoul marked the highest figure of 390 thousand won, which was followed by metropolitan cities (268 thousand won), cities (262 thousand won) and Eup & Myeon (177 thousand won).

\* The nation is categorized into 4 groups (Seoul, metropolitan cities, cities and Eup & Myeon.)

- ☐ Seoul marked the highest year-on-year increase at 10.6 percent, which was followed by metropolitan cities (8.4%), Eup & Myeon (6.2%) and cities (4.5%).

- ☐ The participation rate of Seoul recorded the highest figure at 76.7 percent, which was followed by cities (71.1%), metropolitan cities (70.9%) and Eup & Myeon (61.7%).

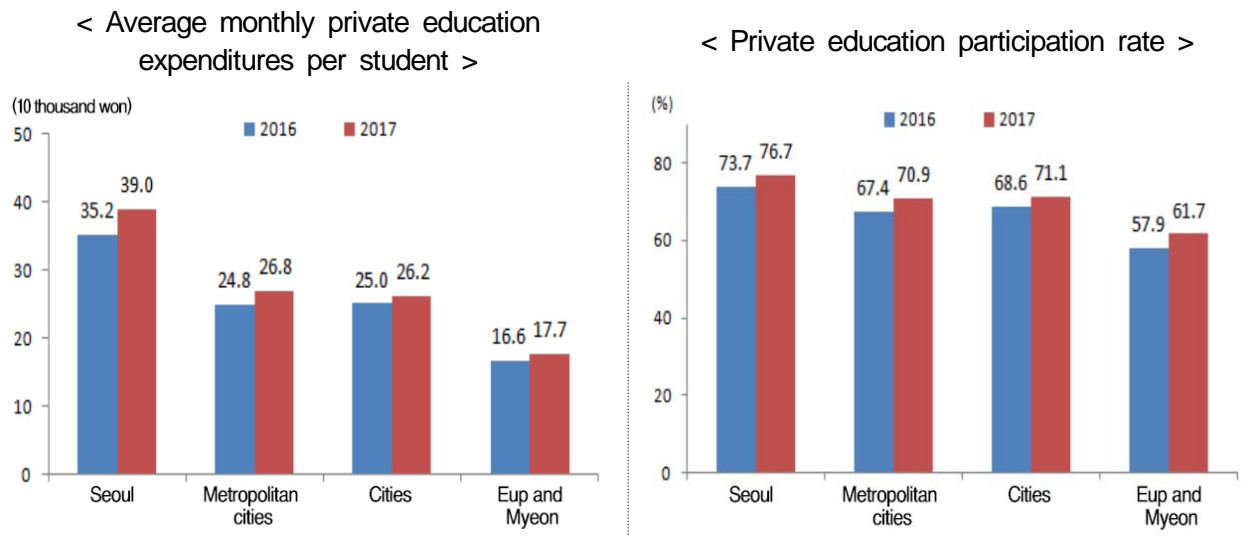
- ☐ Eup & Myeon (3.8%p) marked the highest year-on-year increase, which was followed by metropolitan cities (3.5%p), Seoul (3.0%p) and cities (2.6%p).

< Table 15 > Average monthly private education expenditures per student and participation rate by region

Classification	Private education expenditures (10 thousand won, %)					Participation rate (%, %p)				
	Total	Seoul	Metropolitan cities	Cities*	Eup and Myeon	Total	Seoul	Metropolitan cities	Cities*	Eup and Myeon
<b>2016</b>	<b>25.6</b>	<b>35.2</b>	<b>24.8</b>	<b>25.0</b>	<b>16.6</b>	<b>67.8</b>	<b>73.7</b>	<b>67.4</b>	<b>68.6</b>	<b>57.9</b>
<b>2017</b>	<b>27.1</b>	<b>39.0</b>	<b>26.8</b>	<b>26.2</b>	<b>17.7</b>	<b>70.5</b>	<b>76.7</b>	<b>70.9</b>	<b>71.1</b>	<b>61.7</b>
Year-on-year	5.9	10.6	8.4	4.5	6.2	2.7	3.0	3.5	2.6	3.8
Elementary school	25.3	34.1	25.4	24.5	18.7	82.3	86.0	81.8	83.3	76.9
Middle school	29.1	41.6	28.2	29.0	16.7	66.4	74.5	68.0	66.8	53.2
High school	28.4	44.3	27.9	26.4	16.7	55.0	64.4	56.3	55.2	41.9

\* Cities: Dong in cities excluding Seoul and 6 metropolitan cities

< Figure 9 > Average monthly private education expenditures per student and participation rate by region



(2) Private education expenditures and participation rate by metropolitan city and province

- ☐ As for the average monthly expenditures per student by metropolitan city and province, Seoul marked the highest figure of 390 thousand won, while Jeonnam marked the lowest figure of 157 thousand won.
- ☐ Compared to 2016, Daegu, Sejong and Seoul rose by 13.2 percent, 10.6 percent and 10.6 percent, respectively. In the meantime, Chungbuk and Jeonnam fell by 3.8 percent and 3.1 percent, respectively.
- ☐ The private education participation rate of Seoul marked the highest figure at 76.7 percent, which was followed by Sejong (74.0%) and Daegu (73.6%). The private education participation rate of Jeonnam marked the lowest figure at 56.2 percent.

< Table 16 > Average monthly private education expenditures per student and participation rate by metropolitan city and province

Classification	Private education expenditures (10 thousand won, %)			Participation rate (%, %p)		
	2016	2017	Percent change from the previous year	2016	2017	Change from the previous year
<b>Total</b>	<b>25.6</b>	<b>27.1</b>	<b>5.9</b>	<b>67.8</b>	<b>70.5</b>	<b>2.7</b>
Seoul	35.2	39.0	10.6	73.7	76.7	3.0
Busan	25.6	27.6	7.6	69.8	72.6	2.8
Daegu	26.5	30.0	13.2	68.9	73.6	4.7
Incheon	23.2	25.1	8.0	64.9	67.3	2.5
Gwangju	22.8	24.5	7.4	64.8	68.2	3.4
Daejeon	25.7	27.5	7.3	68.8	72.3	3.5
Ulsan	23.9	23.5	-1.4	68.1	68.6	0.4
Sejong	23.7	26.2	10.6	69.2	74.0	4.8
Gyeonggi	27.9	28.6	2.5	71.5	73.2	1.7
Gangwon	18.4	20.2	10.0	61.4	64.8	3.4
Chungbuk	19.7	18.9	-3.8	60.5	62.3	1.8
Chungnam	17.7	18.8	5.9	58.8	63.9	5.1
Jeonbuk	19.4	20.3	4.5	60.9	63.8	2.9
Jeonnam	16.2	15.7	-3.1	54.9	56.2	1.3
Gyeongbuk	19.3	20.6	6.4	64.0	66.9	3.0
Gyeongnam	20.9	22.0	5.3	65.2	69.6	4.4
Jeju	22.6	22.3	-1.3	64.6	65.9	1.4

## 2 After-school Programs, EBS Textbooks, Language Courses and Consulting for Career or Higher Education

### 1. Education expenditures and participation rate by year

The after-school program participation rate recorded 54.6 percent. The language course participation rate recorded 0.5 percent.

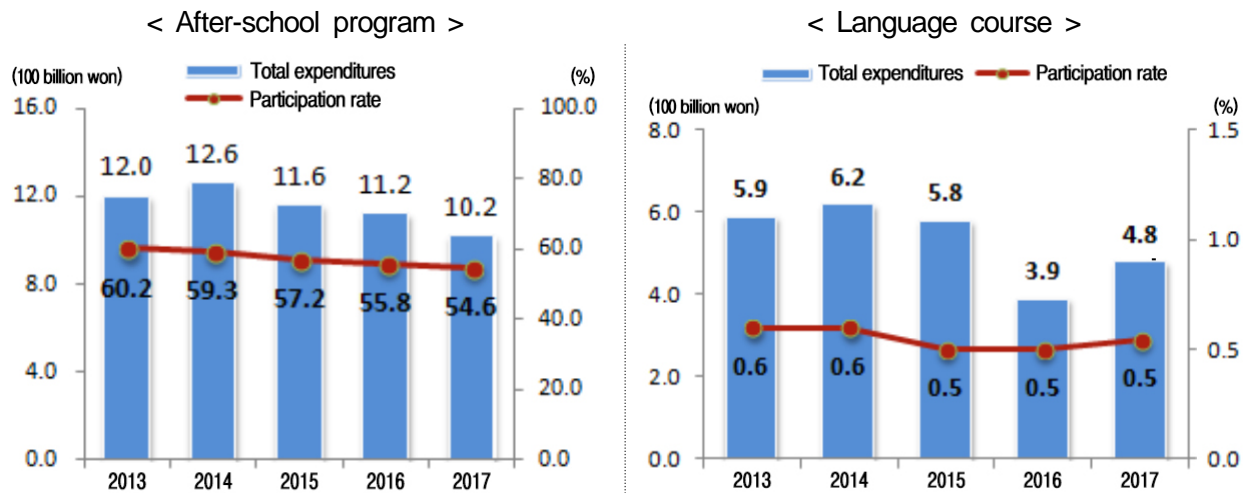
- The expenditures on after-school programs amounted to 1,020 billion won. The expenditures on language courses amounted to 480 billion won.
- The after-school program participation rate stood at 54.6 percent. The language course participation rate recorded 0.5 percent.

< Table 17 > Expenditures and participation rate of after-school programs and language courses by year

Classification	Total education expenditures (100 million won, %)					Participation rate (%, %p)*				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
After-school programs	12,033	12,597	11,647	11,174	10,175	60.2	59.3	57.2	55.8	54.6
Year-on-year	13.9	4.7	-7.5	-4.1	-8.9	2.6	-0.9	-2.1	-1.4	-1.2
Language courses	5,894	6,190	5,795	3,864	4,787	0.6	0.6	0.5	0.5	0.5
Year-on-year	12.8	5.0	-6.4	-33.3	23.9	-0.1	0.0	-0.1	0.0	0.0

\* Paid and free after-school program participation rate

< Figure 10 > Expenditures and participation rate of after-school programs and language courses by year



### 2. After-school program participation rate

The after-school program participation rate declined by 1.2%p from 55.8 percent in 2016 to 54.6 percent in 2017.



- The paid and free after-school program participation rate of elementary and middle school students grew by 1.5%p and 2.3%p, respectively. Whereas, the paid and free after-school program participation rate of high school students declined by 8.6%p.
- The paid after-school program participation rate of elementary school students recorded the highest figure at 50.8 percent, which was followed by high school students (50.4%) and middle school students (19.6%).

< Table 18 > After-school program participation rate by school level

(Unit: %, %p)

Classification	Paid and free after-school program participation rate				Paid after-school program participation rate			
	2015	2016	2017	Change from the previous year	2015	2016	2017	Change from the previous year
<b>Total</b>	<b>57.2</b>	<b>55.8</b>	<b>54.6</b>	<b>-1.2</b>	<b>46.8</b>	<b>45.9</b>	<b>43.2</b>	<b>-2.8</b>
Elementary school	60.2	58.9	60.4	1.5	50.8	50.3	50.8	0.5
Middle school	40.8	35.0	37.2	2.3	26.7	20.0	19.6	-0.4
High school	67.2	68.3	59.8	-8.6	58.6	60.7	50.4	-10.3

### 3. Percentage of students purchasing EBS textbooks for autonomous learning

**The percentage of students purchasing EBS textbooks for autonomous learning stood at 16.9 percent in 2017, down 2.0%p from 18.9 percent in 2016.**

- High school students showed the highest percentage of students purchasing EBS textbooks at 34.8 percent. Middle school students recorded the lowest percentage of students purchasing EBS textbooks at 9.0 percent.
- Compared to 2016, the share of elementary school students purchasing EBS textbooks went up by 0.5%p, while the share of high school students went down by 6.0%p, respectively.

< Table 19 > Percentage of students purchasing EBS textbooks by school level

(Unit: %, %p)

Classification	Total	Elementary school	Middle school	High school
2016	18.9	9.4	9.9	40.8
<b>2017</b>	<b>16.9</b>	<b>9.9</b>	<b>9.0</b>	<b>34.8</b>
Change from the previous year	-2.0	0.5	-0.9	-6.0

### 4. Language course participation rate

**The language course participation rate recorded 0.5 percent in 2017, which remained the same level as 2016.**

- The language course participation rate of middle school students recorded the highest figure at 0.7 percent, which was followed by elementary school students (0.6%) and high school students (0.3%).
- Compared to the previous year, the language course participation rate of middle and high school students went up by 0.1%p and 0.1%p, respectively.

< Table 20 > Language course participation rate by school level

(Unit: %, %p)

Classification	Total	Elementary school	Middle school	High school
2016	0.5	0.7	0.6	0.2
<b>2017</b>	<b>0.5</b>	<b>0.6</b>	<b>0.7</b>	<b>0.3</b>
Change from the previous year	0.0	-0.0	0.1	0.1

## 5. Total expenditures and participation rate of consulting for career or higher education

**The expenditures on consulting for career or higher education amounted to 48 billion won. The participation rate of consulting for career or higher education marked 3.0 percent.**

- ☐ The expenditures on consulting for career or higher education recorded 11.6 billion won for elementary school students, 11.6 billion won for middle school students and 24.9 billion won for high school students.
- ☐ The participation rate of elementary, middle and high school students recorded 2.3 percent, 3.5 percent and 3.7 percent, respectively.

< Table 21 > Expenditures and participation rate of consulting for career or higher education by school level

(Unit: 100 million won, %)

Classification	Total	Elementary school	Middle school	High school
Total expenditures	<b>480</b>	116	116	249
Participation rate	<b>3.0</b>	2.3	3.5	3.7