Section 2.5 Federal Income Taxes - SOLUTIONS

Group Activity

Using the tax tables, calculate the values for each household and determine the amount they owe or will be refunded.

| 2010 | | | | | | | | | |
|---------------------------|-------------------------------|--|--|--|--|--|--|--|--|
| 2018 | Dakota and Avery | Letitia | | | | | | | |
| Tax Year | (no children) | (2 children) | | | | | | | |
| | | Single | | | | | | | |
| Filing Status | Married Filing Jointly | (Single means she is not claiming her kids | | | | | | | |
| | | on her return, another parent is) | | | | | | | |
| Adjusted Gross Income | \$93,700 | \$42,600 | | | | | | | |
| | 4557.55 | ¥ :=/,000 | | | | | | | |
| Itemized | | | | | | | | | |
| Deductions | \$17,200 | \$5,700 | | | | | | | |
| Standard | | | | | | | | | |
| Deduction | \$24,000 | \$12,000 | | | | | | | |
| Taxable | #00 700 | \$40.000 | | | | | | | |
| Income | \$93,700 | \$42,600 | | | | | | | |
| | <u>-24,000</u> | <u>-12,000</u> | | | | | | | |
| | = \$69,700 | = \$30,600 | | | | | | | |
| | | \$052.50 · 42/20.600.0.525\ | | | | | | | |
| Tax from Table | \$1,905+.12(69,700-19,050) | \$952.50+.12(30,600-9,525) - \$2,481.50 | | | | | | | |
| | = \$7,983 | = \$3,481.50 | | | | | | | |
| Tax Credits | \$0 | \$426 | | | | | | | |
| Tax Amount | T | 7.20 | | | | | | | |
| after Credits | \$7,983 | \$3,481.50-426 = \$3,055.50 | | | | | | | |
| arter Credits | Ψ1,903 | ψ3,401.30-420 = ψ3,033.30 | | | | | | | |
| Federal Taxes Withheld | \$14,570 | \$4,230 | | | | | | | |
| | Refund | Refund | | | | | | | |
| Federal Tax | | \$4,230.00 | | | | | | | |
| Owed or | \$14,570 | • • | | | | | | | |
| Refund | \$7,983 | <u>-\$3,055.50</u> | | | | | | | |
| | = 6,587 | = \$1,174.50 | | | | | | | |
| Effective Rate | | | | | | | | | |
| (Tax amount | AT 000/00 T 00 | | | | | | | | |
| after credits÷ | \$7,983/69,700 = 11.5% | \$3,055.50/30,600 = 10% | | | | | | | |
| taxable | | | | | | | | | |
| income) | | l · | | | | | | | |

| 2018 Tax Year | Joshua (3 children) | Karalene (no children) | | | | | | |
|---|--|--|--|--|--|--|--|--|
| Filing Status | Head of Household | Married Filing Separately | | | | | | |
| Adjusted Gross Income | \$38,200 | \$125,400 | | | | | | |
| Itemized Deductions | \$7,800 | \$8,500 | | | | | | |
| Standard Deduction | \$18,000 | \$12,000 | | | | | | |
| Taxable Income | \$38,200 -18,000 = \$20,200 | \$125,400 -12,000 = \$113,400 | | | | | | |
| Tax from Table | \$1360 + .12(20,200-13,600) = \$2,152 | \$14,089.50+.24(113,400-82,500) = \$21,505.50 | | | | | | |
| Tax Credits | \$2,049 | \$0 | | | | | | |
| Tax Amount after Credits | \$2,152-2,049 = \$103 | \$21,505.50 | | | | | | |
| Federal Taxes Withheld | \$3,850 | \$23,490 | | | | | | |
| Federal Tax Owed or Refund | Refund \$3,850 -103 = \$3,747 | Owe \$21,505.50 -\$23,490.00 = \$1,984.50 | | | | | | |
| Effective Rate (Tax amount after credits÷ taxable income) | \$103/20,200 = 0.5% | \$21,505.50/113,400 = 19% | | | | | | |

Below is a portion of the 2017 tax year tax schedule from the form 1040 booklet.

a. Find the tax amount for a single person with a taxable income of \$39,890.

The taxes from the table would be \$5,708.

b. Find the tax amount for a married couple filing jointly with a taxable income of \$45,350.

The taxes from the table would be \$5,874.

c. Find the tax amount for a single dad filing as head of household with a taxable income of \$42,102.

The taxes from the table would be \$5,651.

2017 Tax Table — Continued

| If line 43 (taxable income) is— And you are— | | | If line 4 (taxable income | e | And you are— | | | | If line 43 (taxable income) is— | | And you are— | | | | | | |
|--|--|---|---|---|---|--|--|---|---|---|---|--|----------------------------|---|---|---|---|
| At least | But less than | Single | Married filing jointly * | Married filing sepa- rately | Head of a house- hold | At least | But less than | Single | Married filing jointly * | Married filing sepa- rately | Head of a house- hold | At least | But less than | Single | Married filing jointly * | Married filing sepa- rately | Head of a house- hold |
| | | Your tax is— Your tax is— | | | | | | | | | | Your tax is— | | | | | |
| 39,000 | | | | 42,000 | | | | 45,000 | | | | | | | | | |
| 39,000 39,050 39,100 39,150 39,200 | 39,050 39,100 39,150 39,200 39,250 | 5,495 5,508 5,520 5,533 5,545 | 4,921 4,929 4,936 4,944 4,951 | 5,495 5,508 5,520 5,533 5,545 | 5,186 5,194 5,201 5,209 5,216 | 42,000 42,050 42,100 42,150 42,200 | 42,050 42,100 42,150 42,200 42,250 | 6,245 6,258 6,270 6,283 6,295 | 5,371 5,379 5,386 5,394 5,401 | 6,245 6,258 6,270 6,283 6,295 | 5,636 5,644 5,651 5,659 5,666 | 45,000 45,050 45,100 45,150 45,200 | 45,100 45,150 | 6,995 7,008 7,020 7,033 7,045 | 5,821 5,829 5,836 5,844 5,851 | 6,995 7,008 7,020 7,033 7,045 | 6,086 6,094 6,101 6,109 6,116 |
| 39,250 39,300 39,350 39,400 39,450 | 39,300 39,350 39,400 39,450 39,500 | 5,558 5,570 5,583 5,595 5,608 | 4,959 4,966 4,974 4,981 4,989 | 5,558 5,570 5,583 5,595 5,608 | 5,224 5,231 5,239 5,246 5,254 | 42,250 42,300 42,350 42,400 42,450 | 42,300 42,350 42,400 42,450 42,500 | 6,308 6,320 6,333 6,345 6,358 | 5,409 5,416 5,424 5,431 5,439 | 6,308 6,320 6,333 6,345 6,358 | 5,674 5,681 5,689 5,696 5,704 | 45,250 45,300 45,350 45,400 45,450 | 45,350 45,400 45,450 | 7,058 7,070 7,083 7,095 7,108 | 5,859 5,866 5,874 5,881 5,889 | 7,058 7,070 7,083 7,095 7,108 | 6,124 6,131 6,139 6,146 6,154 |
| 39,500 39,550 39,600 39,650 39,700 | 39,550 39,600 39,650 39,700 39,750 | 5,620 5,633 5,645 5,658 5,670 | 4,996 5,004 5,011 5,019 5,026 | 5,620 5,633 5,645 5,658 5,670 | 5,261 5,269 5,276 5,284 5,291 | 42,500 42,550 42,600 42,650 42,700 | 42,550 42,600 42,650 42,700 42,750 | 6,370 6,383 6,395 6,408 6,420 | 5,446 5,454 5,461 5,469 5,476 | 6,370 6,383 6,395 6,408 6,420 | 5,711 5,719 5,726 5,734 5,741 | 45,500 45,550 45,600 45,650 45,700 | 45,650 | 7,120 7,133 7,145 7,158 7,170 | 5,896 5,904 5,911 5,919 5,926 | 7,120 7,133 7,145 7,158 7,170 | 6,161 6,169 6,176 6,184 6,191 |
| 39,750 39,800 39,850 39,900 39,950 | 39,800 39,850 39,900 39,950 40,000 | 5,683 5,695 5,708 5,720 5,733 | 5,034 5,041 5,049 5,056 5,064 | 5,683 5,695 5,708 5,720 5,733 | 5,299 5,306 5,314 5,321 5,329 | 42,750 42,800 42,850 42,900 42,950 | 42,800 42,850 42,900 42,950 43,000 | 6,433 6,445 6,458 6,470 6,483 | 5,484 5,491 5,499 5,506 5,514 | 6,433 6,445 6,458 6,470 6,483 | 5,749 5,756 5,764 5,771 5,779 | 45,750 45,800 45,850 45,900 45,950 | 45,850 45,900 45,950 | 7,183 7,195 7,208 7,220 7,233 | 5,934 5,941 5,949 5,956 5,964 | 7,183 7,195 7,208 7,220 7,233 | 6,199 6,206 6,214 6,221 6,229 |
| 40,000 | | | 43,000 | | | | 46,000 | | | | | | | | | | |
| 40,000 | 40,050 | 5,745 | 5,071 | 5,745 | 5,336 | 43,000 | 43,050 | 6,495 | 5,521 | 6,495 | 5,786 | 46,000 | 46,050 | 7,245 | 5,971 | 7,245 | 6,236 |

More Practice (if extra time)

- 1. Use the **2018 tax tables** to answer the questions and show your steps. The tables will be given to you with any test. Write your answers in complete sentences.
 - a. Mariana is single and has \$11,402 in itemized deductions. What is her standard deduction and should she claim the itemized deductions or the standard deduction?

b. Vy has a gross income of \$129,500 and he filed as the head of household with 2 kids. He had \$6,500 in itemized deductions. Determine his deduction and calculate his taxable income.

c. Alex and Jesse are married, filing jointly. Their taxable income is \$96,210. Calculate the amount of tax they owe using the appropriate table.

d. Tim had \$8,420 deducted from his paychecks in withholdings. He calculated his taxes owed to be \$7,952. Does he get a refund or owe money and what is the amount?