Subtraction Strategy Examples

| Concrete: Direct Modeling Examples | Representational: Invented Strategies Examples | Abstract: Standard Algorithm(s) Examples |
|---|--|---|
| Problem: | Problem: | Problem: |
| Savannah has 15 pencils. She gives away | 153 – 47 = ? | 52 - 37 = ? |
| | | 32 - 37 - : |
| 6 pencils. How many pencils does he have | 153 – 47 = 106 | |
| left? | | |
| | Solution Path: Counting Back with an | Solution Path: Subtraction Algorithm |
| Solution Path: | Open Number Line | with Regrouping |
| | - F | |
| | | Tens Ones |
| | _{4 3} 10 10 10 10 | 4 12 |
| \odot | 000000 | ,5 ,2 |
| 0000 | | - 3 7 - 3 7 |
| 00000 | 106 110 113 123 133 143 153 | 1 5 |
| | | 1 0 |
| Problem: | Problem: | Problem: |
| 12 - 5 =? | 153 – 47 = ? | 74 - 23 = ? |
| | | 74-23-: |
| 12 – 5 = 7 | 153 – 47 = 106 | |
| | | |
| Solution Path: Part-Part-Whole | Solution Path: Counting Up with an Open | Solution Path: Subtraction Algorithm |
| | Number Line | without Regrouping |
| | | |
| | +100 | 74 |
| | +3 +3 | - <u>23</u> |
| | | |
| 00,000 | 47 50 150 153 | 51 |
| | | |
| Problem: | Problem: | Problem: |
| 14 - 8 = | 153 - 47 =? | 958 - 356 =? |
| | | |
| Solution Path: Ten Frame with Counters | Solution Path: "Take Away" Subtraction | Solution Path: Subtraction Algorithm |
| | | without Regrouping |
| | | 958 |
| | 153 – 47 = | |
| | | - <u>356</u> |
| | 153 – 40 = 113 | 602 |
| | 113 – 3 = 110 | |
| | 110 – 4 = 106 | |
| Problem: | Problem: | Problem: |
| 51 - 29 = | 153 - 47=? | 1000 |
| 51 - 29 = 22 | | - <u>647</u> |
| 31 - 29 - 22 | Calution Dathy Companyation Strategy | - <u>- 047</u> |
| - 1 . | Solution Path: Compensation Strategy | |
| Solution Path: Base Ten Blocks | | Solution Path: Subtraction Algorithm |
| | 3 | with Regrouping |
| Y Y \ | | |
| | | 9.9. |
| | 47 50 153 156 | 1 d d d |
| | 155 150 | מממז |
| | Answer: 156 – 50 = 106 | - 647 |
| | | - 04/ |
| | | 353 |
| | Student compensates the numbers into | 333 |
| | friendly numbers that makes sense to | |
| | them to use patterns in the place value | |
| \ _ \ \ _ \ \ | | |
| MILE THE WAY IN | system for subtraction. | |



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