

Sorting Mats and Fact Sets

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Foundational Facts

Page 2: Addition and missing addend

Page 11: Subtraction

Derived Facts

Page 16: Addition

Page 21: Subtraction

Foundational Facts

Page 26: Multiplication and missing factor

Page 32: Division

Derived Facts

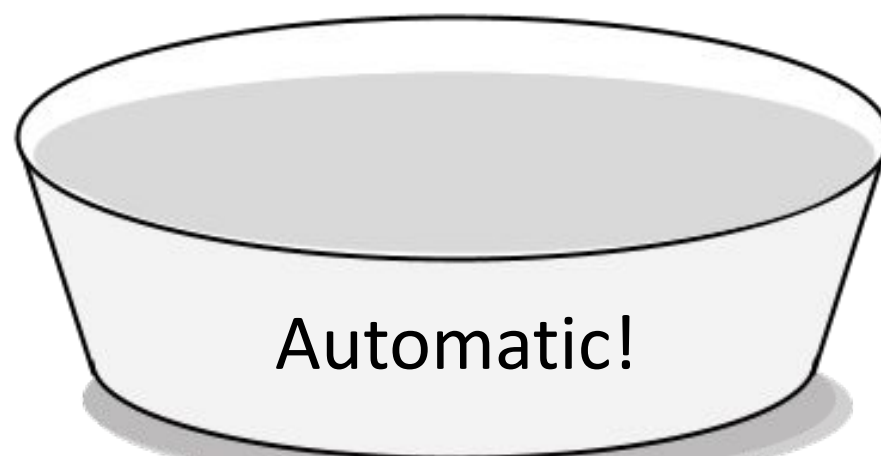
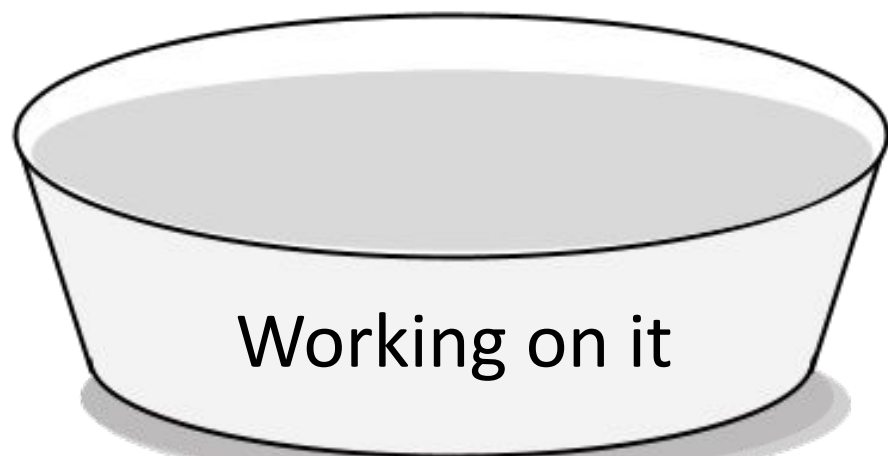
Page 37: Multiplication

Page 41: Division

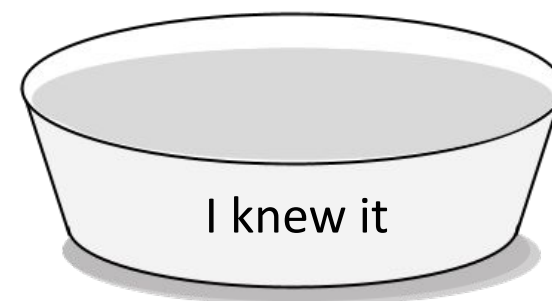
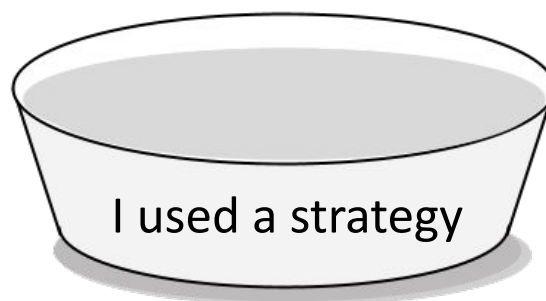
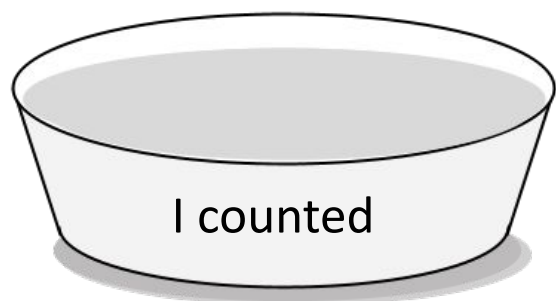
Foundational Facts for Addition

Sorting Mats and Card Sets

“Know It!”



How did you solve it?



+0, +1, +2 (partial list)

$4 + 2$

$1 + 6$

$2 + 7$

$9 + 2$

$5 + 1$

$9 + 0$

$1 + 8$

$0 + 4$

$1 + 4$

$2 + 3$

$8 + 2$

$2 + 5$

doubles

$5 + 5$

$3 + 3$

$8 + 8$

$7 + 7$

$4 + 4$

$6 + 6$

$9 + 9$

$2 + 2$

Combos of 10 and selected 10+

$10 + 0$

$6 + 4$

$10 + 2$

$9 + 1$

$2 + 8$

$3 + 10$

$7 + 10$

$4 + 6$

$1 + 9$

$1 + 10$

$3 + 7$

$9 + 10$

$5 + 5$

$7 + 3$

$6 + 10$

$8 + 2$

Combos of 10 and selected 10+_ missing addend

$10 + \square = 10$

$6 + \square = 10$

$12 = 10 + \square$

$10 = 9 + \square$

$10 = 2 + \square$

$3 + \square = 13$

$7 + \square = 17$

$10 = 4 + \square$

$1 + \square = 10$

$\square + 10 = 11$

$\square + 7 = 10$

$9 + \square = 19$

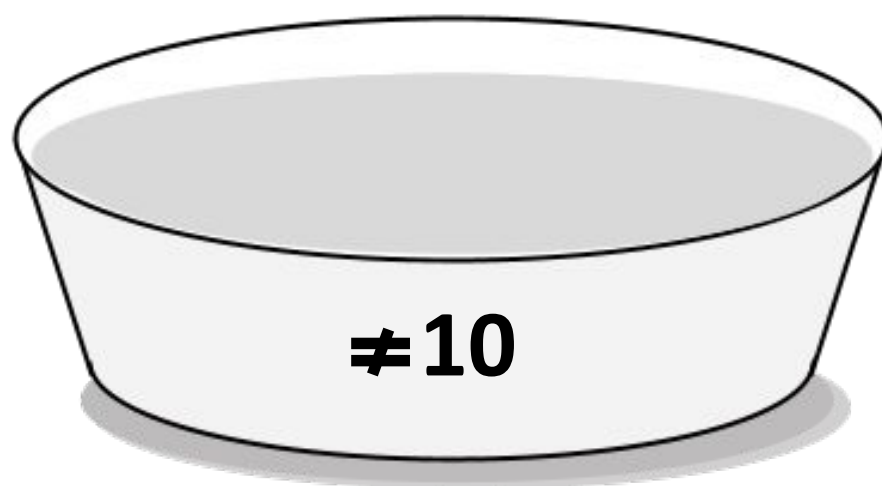
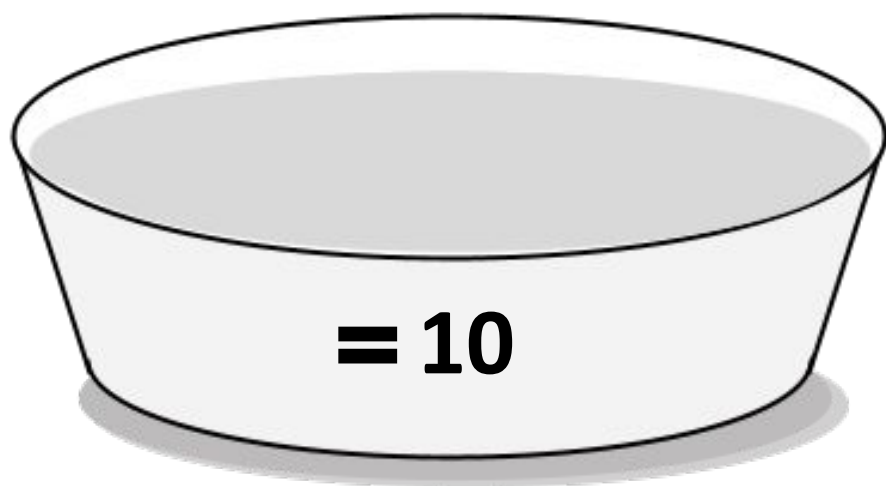
$10 = \square + 5$

$10 = 7 + \square$

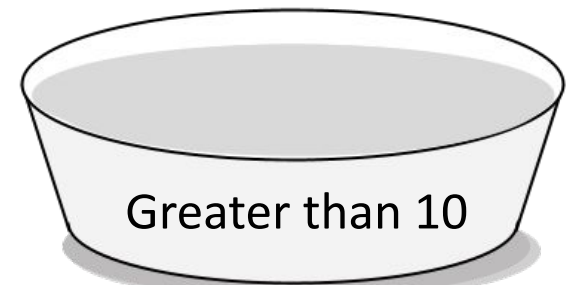
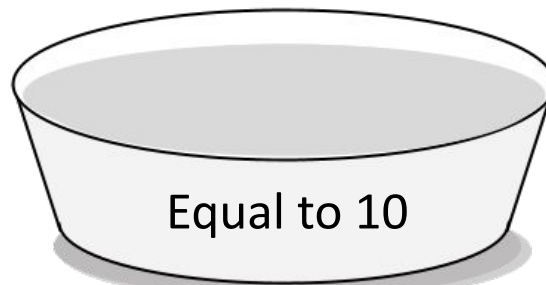
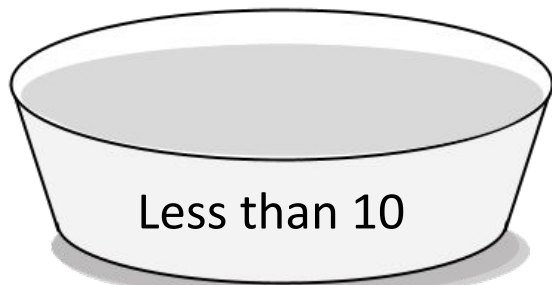
$16 = \square + 10$

$8 + \square = 10$

Combinations of 10



Combinations of 10



$4 + 7$

$8 + 3$

$5 + 5$

$3 + 7$

$6 + 4$

$4 + 6$

$2 + 8$

$7 + 2$

$2 + 9$

$1 + 8$

$7 + 3$

$5 + 6$

$9 + 1$

$3 + 8$

$4 + 5$

$2 + 7$

$3 + 6$

$7 + 4$

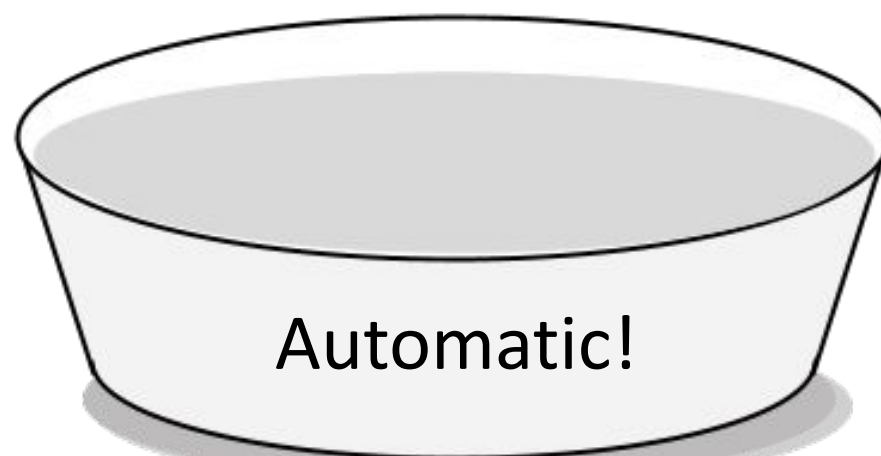
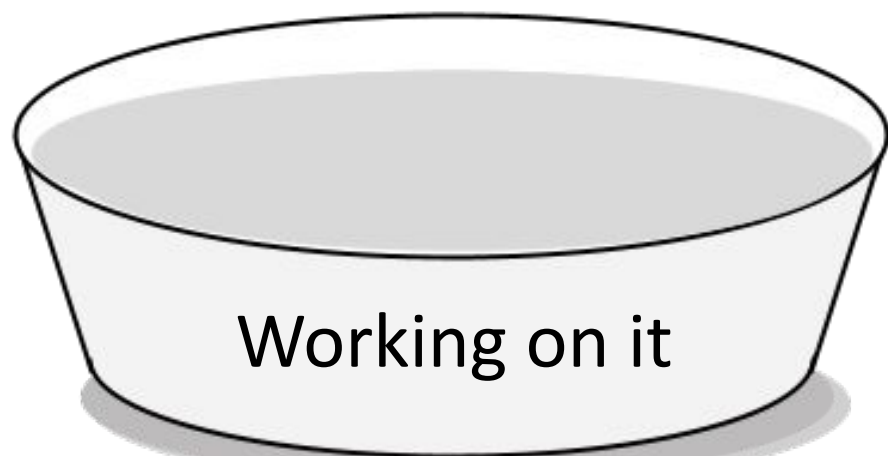
$1 + 9$

$8 + 2$

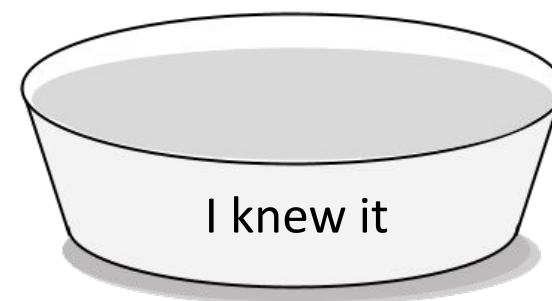
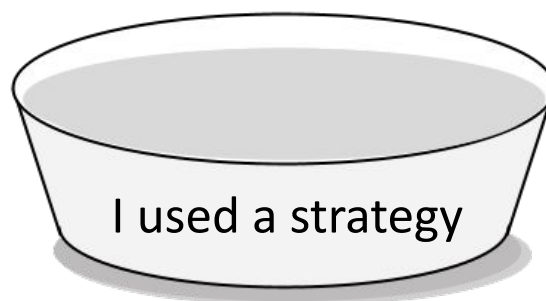
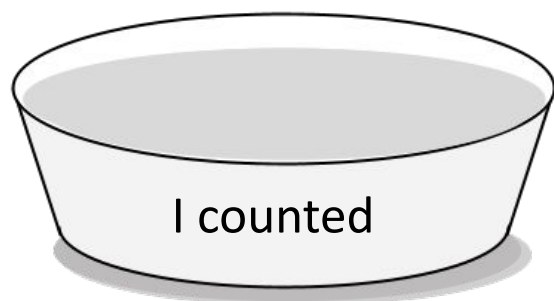
Foundational Facts for Subtraction

Sorting Mats and Card Sets

“Know It!”



How did you solve it?



-0, -1, -2 (partial list)

$4 - 2$

$6 - 1$

$7 - 2$

$9 - 2$

$5 - 1$

$9 - 0$

$8 - 1$

$4 - 0$

$4 - 1$

$3 - 2$

$8 - 2$

$5 - 2$

doubles - related subtraction

$10 - 5$

$6 - 3$

$16 - 8$

$14 - 7$

$8 - 4$

$12 - 6$

$18 - 9$

$4 - 2$

Related combos of 10 and selected 10+_

$10 - 6$

$10 - 1$

$10 - 10$

$10 - 5$

$11 - 10$

$16 - 6$

$13 - 3$

$15 - 10$

$10 - 7$

$10 - 3$

$10 - 8$

$10 - 9$

$12 - 2$

$17 - 10$

$18 - 8$

$19 - 9$

$10 - 2$

$10 - 0$

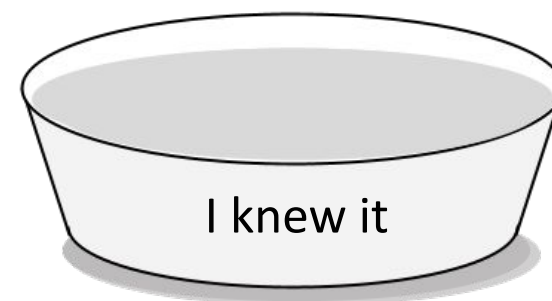
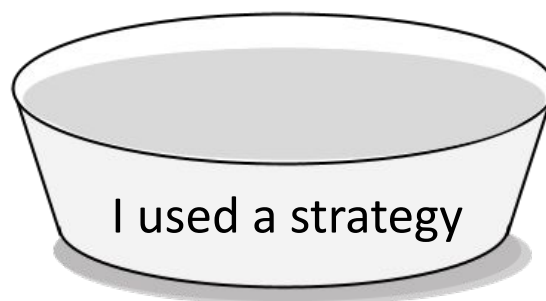
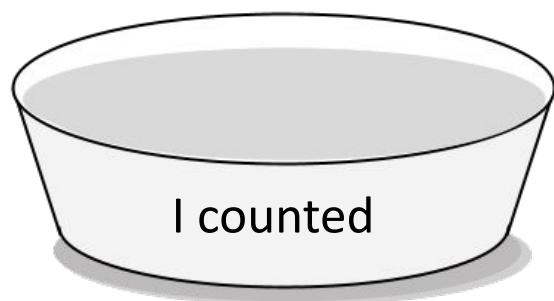
$10 - 4$

$14 - 10$

Derived Facts for Addition

Sorting Mats and Card Sets

How did you solve it?



Strategy Sort: Addition



Counting On



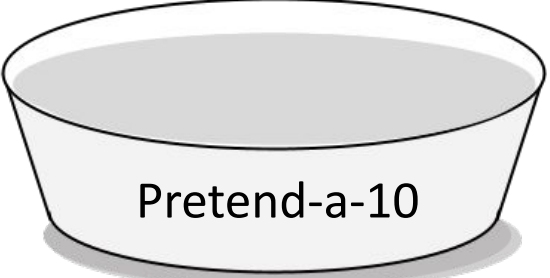
Making 10



Just Knew

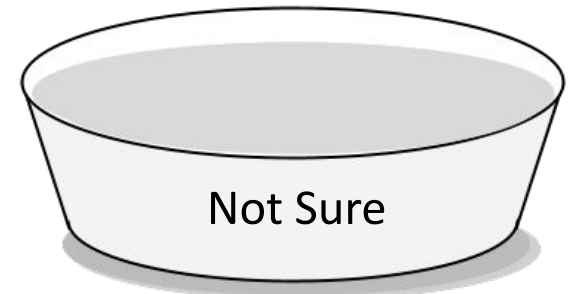
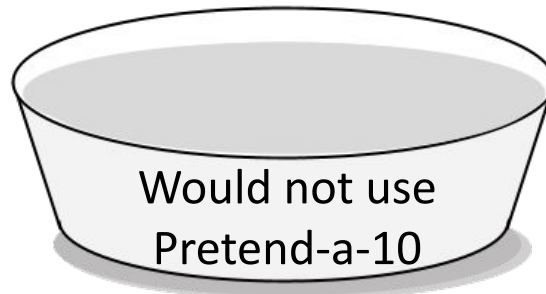
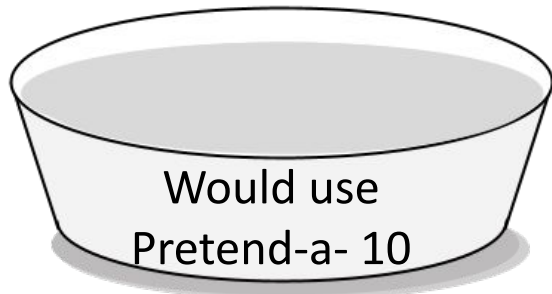


Near Doubles



Pretend-a-10

Strategy Sort: Pretend-a-10



$3 + 4$

$9 + 5$

$5 + 6$

$4 + 5$

$8 + 4$

$7 + 8$

$3 + 6$

$6 + 7$

$8 + 6$

$5 + 3$

$7 + 9$

$6 + 9$

$5 + 8$

$8 + 9$

$8 + 3$

$4 + 7$

$3 + 9$

$7 + 5$

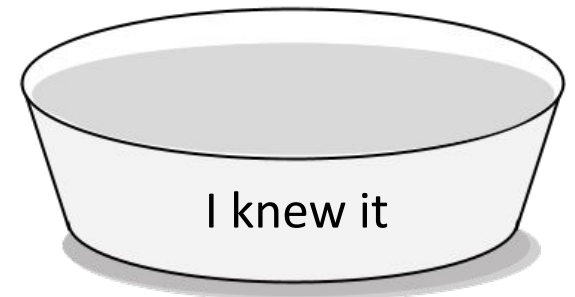
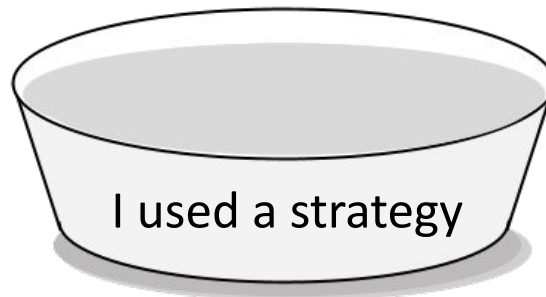
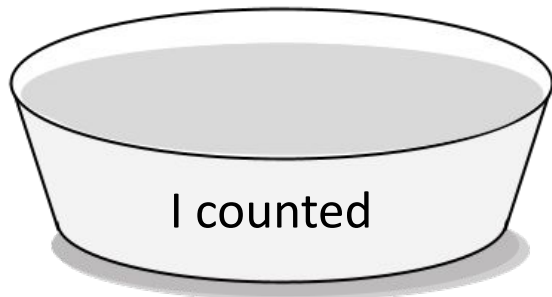
$4 + 9$

$8 + 7$

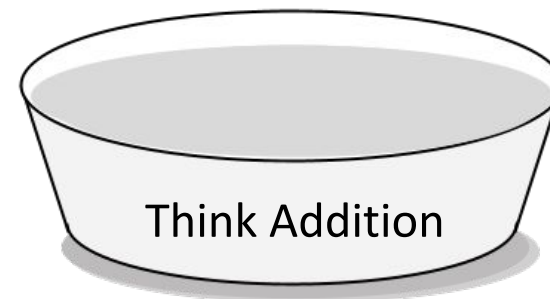
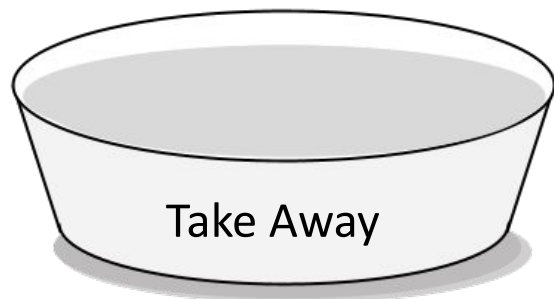
Derived Facts for Subtraction

Sorting Mats and Card Sets

How did you solve it?



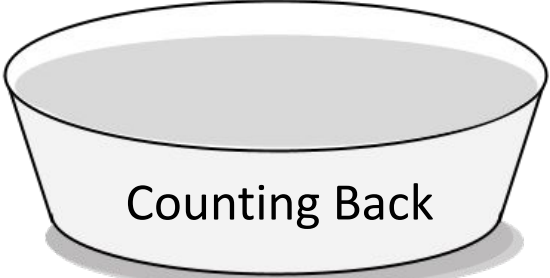
How did you solve it?



Strategy Sort: Subtraction



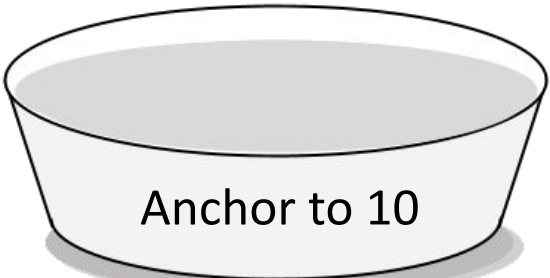
Counting Up



Counting Back



Just Knew



Anchor to 10



Think Addition

$17 - 8$

$11 - 2$

$13 - 4$

$17 - 9$

$13 - 6$

$16 - 8$

$18 - 5$

$12 - 8$

$15 - 7$

$11 - 9$

$7 - 6$

$14 - 6$

$14 - 3$

$12 - 5$

$19 - 7$

$13 - 5$

$15 - 3$

$8 - 6$

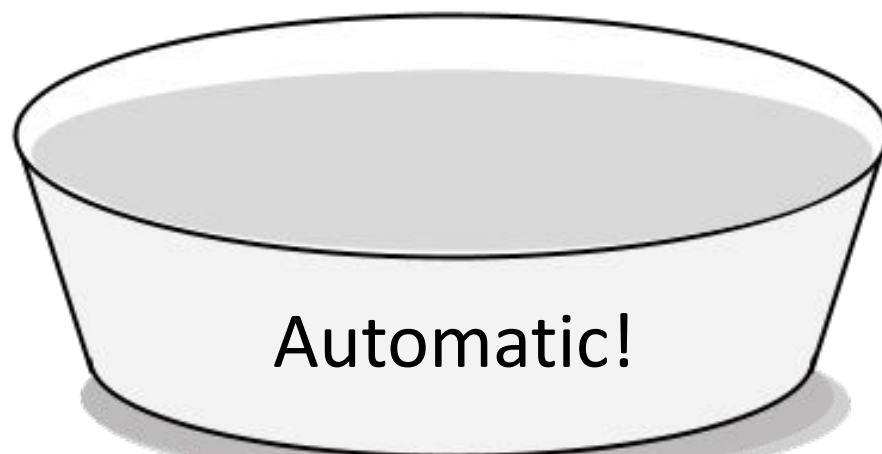
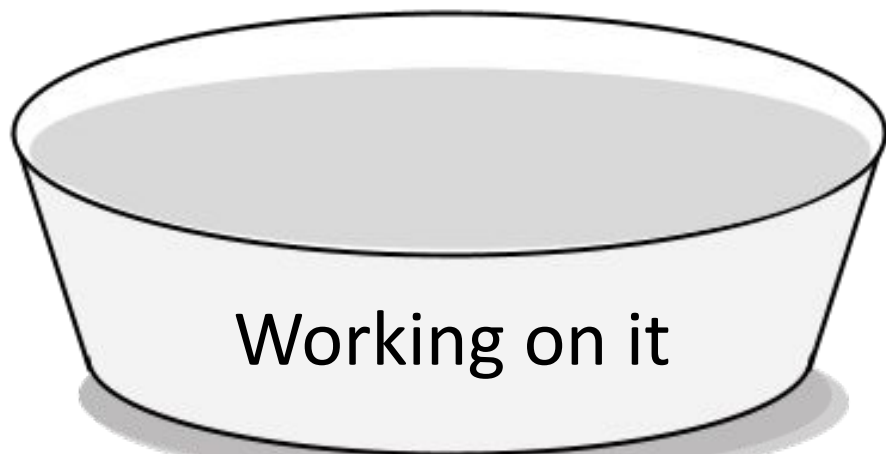
$9 - 3$

$19 - 4$

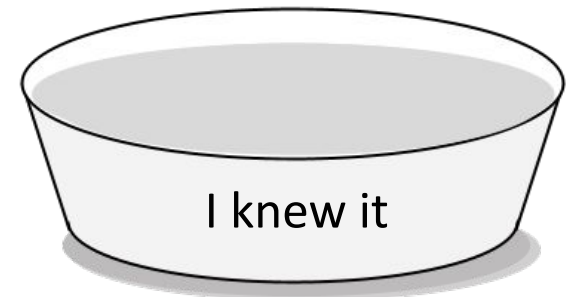
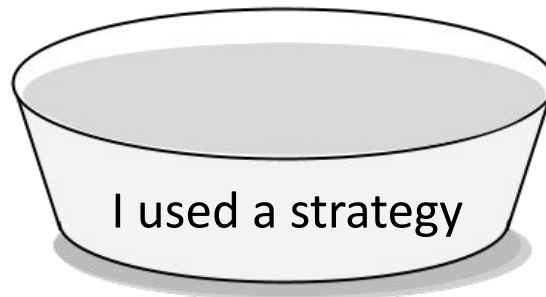
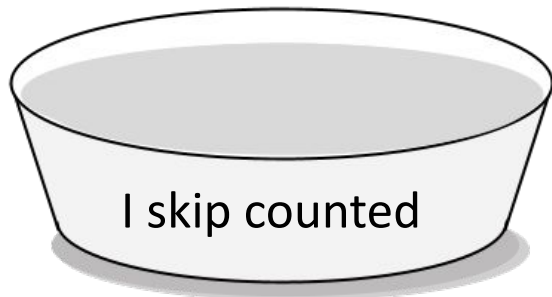
Foundational Facts for Multiplication

Sorting Mats and Card Sets

“Know It!”



How did you solve it?



2s

8×2

2×1

2×7

3×2

2×4

2×10

2×2

2×9

0×2

5×2

9×2

6×2

10s

10×8

10×1

10×7

3×10

10×4

2×10

10×10

10×9

0×10

5×10

9×10

6×10

5s

5×7

5×5

10×5

5×3

1×5

5×8

5×0

5×9

5×6

2×5

7×5

5×4

Squares

6×6

9×9

10×10

7×7

3×3

5×5

8×8

4×4

5s, missing factor

$5 \times \square = 35$

$\square \times 5 = 25$

$\square \times 5 = 50$

$5 \times \square = 15$

$\square \times 5 = 5$

$5 \times \square = 50$

$5 \times \square = 0$

$5 \times \square = 45$

$5 \times \square = 30$

$\square \times 5 = 10$

$\square \times 5 = 35$

$\square \times 5 = 20$

2s, missing factor

$2 \times \square = 4$

$2 \times \square = 2$

$2 \times \square = 20$

$2 \times \square = 12$

$\square \times 2 = 10$

$\square \times 2 = 6$

$\square \times 2 = 8$

$\square \times 2 = 14$

$\square \times 2 = 16$

$2 \times \square = 18$

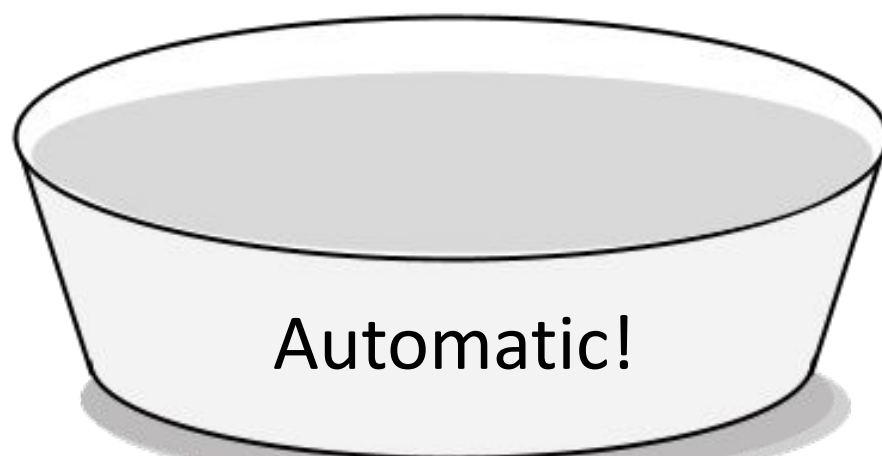
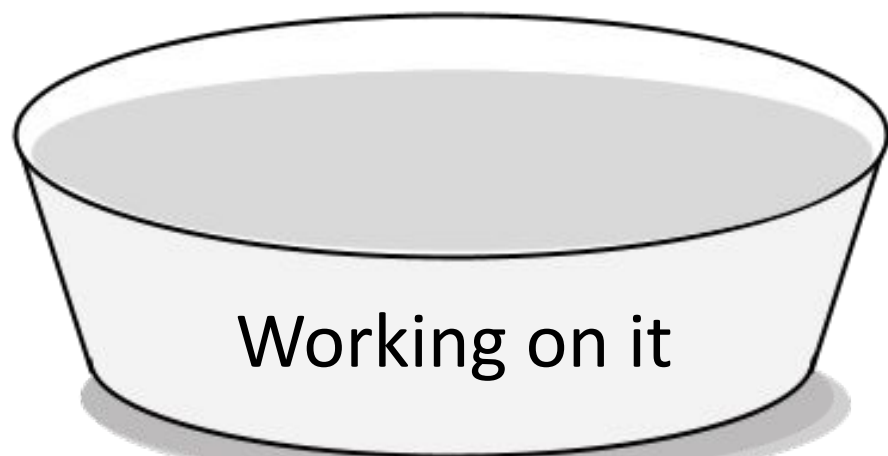
$2 \times \square = 14$

$2 \times \square = 16$

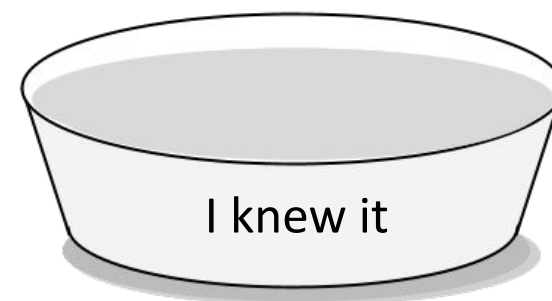
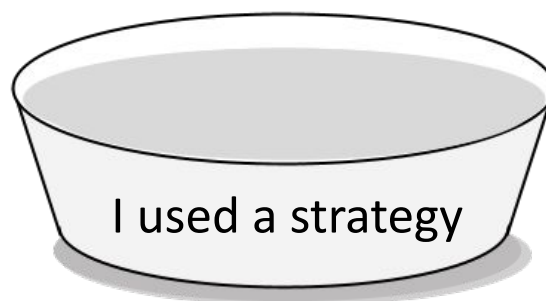
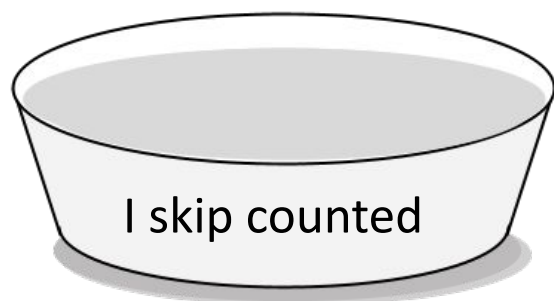
Foundational Facts for Division

Sorting Mats and Card Sets

“Know It!”



How did you solve it?



2s

$16 \div 8$

$2 \div 2$

$14 \div 2$

$6 \div 2$

$8 \div 2$

$20 \div 2$

$4 \div 2$

$12 \div 2$

$0 \div 2$

$10 \div 5$

$18 \div 2$

$14 \div 7$

10s

$80 \div 10$

$10 \div 1$

$70 \div 7$

$30 \div 10$

$40 \div 10$

$20 \div 10$

$100 \div 10$

$60 \div 10$

$0 \div 10$

$50 \div 5$

$90 \div 10$

$40 \div 4$

5s

$35 \div 5$

$25 \div 5$

$50 \div 5$

$15 \div 5$

$5 \div 5$

$40 \div 5$

$0 \div 5$

$45 \div 5$

$30 \div 5$

$10 \div 5$

$35 \div 7$

$20 \div 4$

Squares

$36 \div 6$

$81 \div 9$

$100 \div 10$

$49 \div 7$

$9 \div 3$

$25 \div 5$

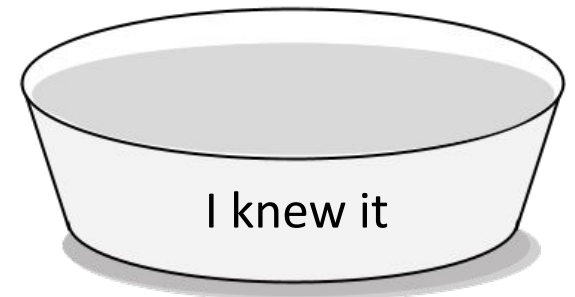
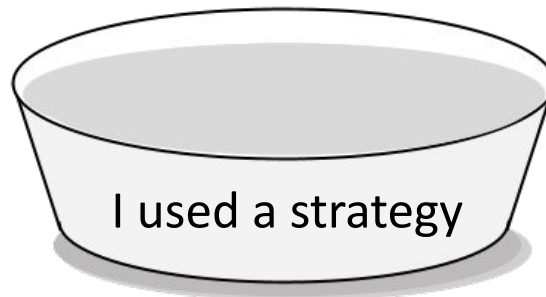
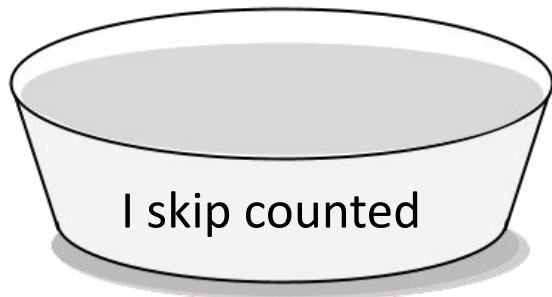
$64 \div 8$

$16 \div 4$

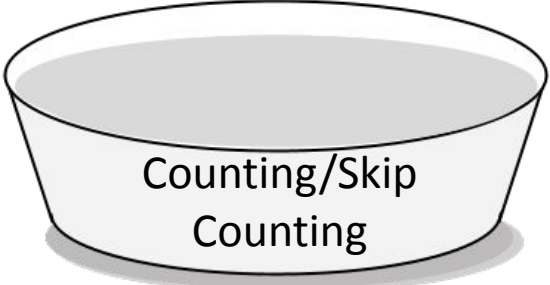
Derived Facts for Multiplication

Sorting Mats and Card Sets

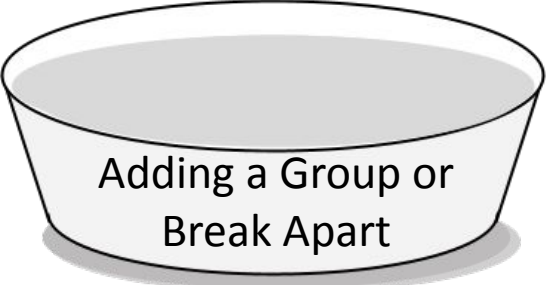
How did you solve it?



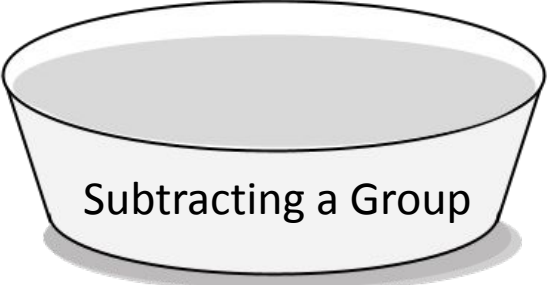
Strategy Sort: Multiplication



Counting/Skip
Counting



Adding a Group or
Break Apart



Subtracting a Group



Doubling



Near Squares



Just Knew

6×8

6×7

6×3

4×8

7×8

3×4

7×9

8×7

4×6

8×9

8×6

3×9

7×6

3×7

9×7

9×8

9×4

6×9

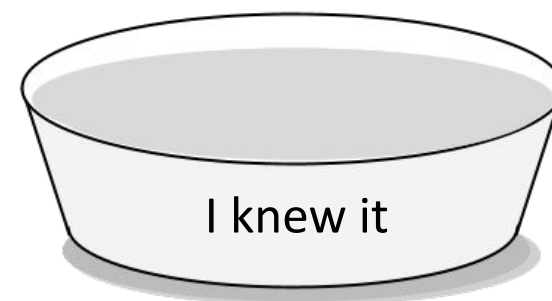
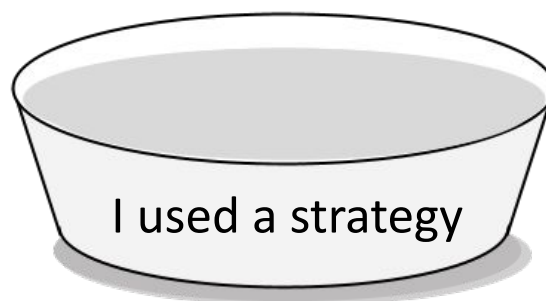
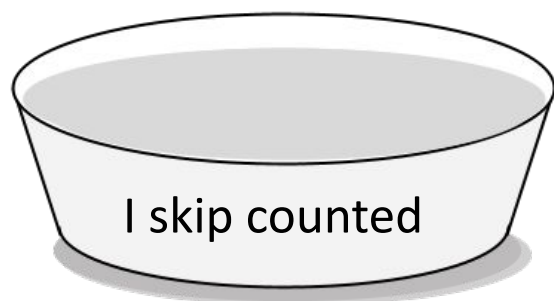
8×3

7×4

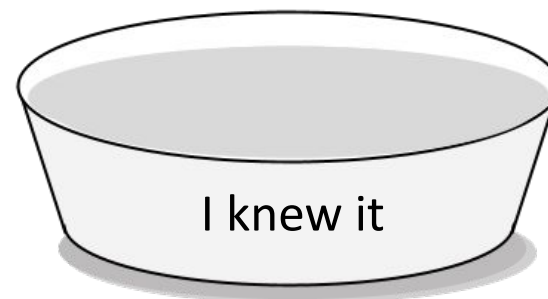
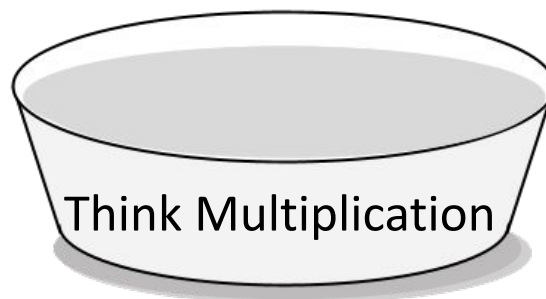
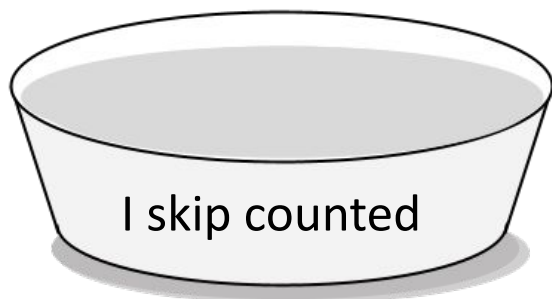
Derived Facts for Division

Sorting Mats and Card Sets

How did you solve it?



Strategy Sort: Division



$48 \div 6$

$42 \div 7$

$18 \div 6$

$32 \div 4$

$56 \div 7$

$12 \div 4$

$63 \div 9$

$56 \div 8$

$24 \div 4$

$72 \div 8$

$48 \div 8$

$27 \div 9$

$42 \div 6$

$27 \div 3$

$63 \div 7$

$72 \div 9$

$36 \div 9$

$54 \div 9$

$24 \div 3$

$28 \div 7$