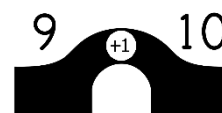


Bridging to 10: Addition

Addition & Subtraction Strategies



When adding a number close to a multiple of 10, Bridging to 10 is a useful strategy.

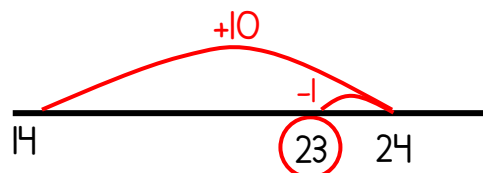
For example: $14 + 9 \dots$

We can **add one** to 9 to make 10 (10 is easier to add).

$$14 + 10 = 24$$

Then we must adjust our answer by **subtracting one**.

$$24 - 1 = 23$$



1. Solve the following using the **Bridging to 10** strategy.

- | | | | |
|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| a. $16 + 9 = \underline{\quad}$ | b. $9 + 32 = \underline{\quad}$ | c. $18 + 9 = \underline{\quad}$ | d. $9 + 24 = \underline{\quad}$ |
| e. $9 + 17 = \underline{\quad}$ | f. $32 + 9 = \underline{\quad}$ | g. $9 + 35 = \underline{\quad}$ | h. $48 + 9 = \underline{\quad}$ |
| i. $33 + 9 = \underline{\quad}$ | j. $9 + 43 = \underline{\quad}$ | k. $13 + 9 = \underline{\quad}$ | l. $9 + 36 = \underline{\quad}$ |
| m. $9 + 56 = \underline{\quad}$ | n. $77 + 9 = \underline{\quad}$ | o. $9 + 46 = \underline{\quad}$ | p. $58 + 9 = \underline{\quad}$ |

2. We can also bridge from 8. Because we add 2 to bridge to 10, we must **subtract 2** to adjust our answer.

- | | | | |
|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| a. $47 + 8 = \underline{\quad}$ | b. $8 + 35 = \underline{\quad}$ | c. $44 + 8 = \underline{\quad}$ | d. $8 + 67 = \underline{\quad}$ |
| e. $8 + 49 = \underline{\quad}$ | f. $74 + 8 = \underline{\quad}$ | g. $8 + 29 = \underline{\quad}$ | h. $18 + 8 = \underline{\quad}$ |

3. Bridging also helps when adding numbers close to multiples of 10 (20, 30, 40...). The numbers to bridge are in **bold**.

- | | | | |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| a. $19 + 24 = \underline{\quad}$ | b. $19 + 36 = \underline{\quad}$ | c. $43 + 19 = \underline{\quad}$ | d. $19 + 47 = \underline{\quad}$ |
| e. $29 + 44 = \underline{\quad}$ | f. $35 + 18 = \underline{\quad}$ | g. $18 + 48 = \underline{\quad}$ | h. $54 + 28 = \underline{\quad}$ |