

Addition Using the Bar Model

Two-digit Numbers

Aim: I can add two-digit numbers

Example

$$34 + 25 = 59$$

$30 + 20 = 50$	$4 + 5 = 9$
$50 + 9 = 59$	

1. $15 + 44 = \underline{\quad}$

6. $65 + 31 = \underline{\quad}$

2. $61 + 18 = \underline{\quad}$

7. $20 + 18 = \underline{\quad}$

3. $59 + 35 = \underline{\quad}$

8. $33 + 53 = \underline{\quad}$

4. $30 + 61 = \underline{\quad}$

9. $67 + 22 = \underline{\quad}$

5. $29 + 35 = \underline{\quad}$

10. $48 + 37 = \underline{\quad}$

11. $26 + 48 = \underline{\quad}$

16. $26 + 21 = \underline{\quad}$

12. $14 + 34 = \underline{\quad}$

17. $28 + 59 = \underline{\quad}$

13. $54 + 14 = \underline{\quad}$

18. $54 + 64 = \underline{\quad}$

14. $28 + 15 = \underline{\quad}$

19. $23 + 46 = \underline{\quad}$

15. $56 + 49 = \underline{\quad}$

20. $52 + 38 = \underline{\quad}$

Answers

1. $15 + 44 = 59$

$10 + 40 = 50$	$5 + 4 = 9$
$50 + 9 = 59$	

2. $61 + 18 = 79$

$60 + 10 = 70$	$1 + 8 = 9$
$70 + 9 = 79$	

3. $59 + 35 = 94$

$50 + 30 = 80$	$9 + 5 = 14$
$80 + 14 = 94$	

4. $30 + 61 = 91$

$30 + 60 = 90$	$0 + 1 = 1$
$90 + 1 = 91$	

5. $29 + 35 = 64$

$20 + 30 = 50$	$9 + 5 = 14$
$50 + 14 = 64$	

6. $65 + 31 = 96$

$60 + 30 = 90$	$5 + 1 = 6$
$90 + 6 = 96$	

7. $20 + 18 = 38$

$20 + 10 = 30$	$0 + 8 = 8$
$30 + 8 = 38$	

8. $33 + 53 = 86$

$30 + 50 = 80$	$3 + 3 = 6$
$80 + 6 = 86$	

9. $67 + 22 = 89$

$60 + 20 = 80$	$7 + 2 = 9$
$80 + 9 = 89$	

10. $48 + 37 = 85$

$40 + 30 = 70$	$8 + 7 = 15$
$70 + 15 = 85$	

11. $26 + 48 = 74$

$20 + 40 = 60$	$6 + 8 = 14$
$60 + 14 = 74$	

16. $26 + 21 = 47$

$20 + 20 = 40$	$6 + 1 = 7$
$40 + 7 = 47$	

12. $14 + 34 = 48$

$10 + 30 = 40$	$4 + 4 = 8$
$40 + 8 = 48$	

17. $28 + 59 = 87$

$20 + 50 = 70$	$8 + 9 = 17$
$70 + 17 = 87$	

13. $54 + 14 = 68$

$50 + 10 = 60$	$4 + 4 = 8$
$60 + 8 = 68$	

18. $54 + 64 = 118$

$50 + 60 = 110$	$4 + 4 = 8$
$110 + 8 = 118$	

14. $28 + 15 = 43$

$20 + 10 = 30$	$8 + 5 = 13$
$30 + 13 = 43$	

19. $23 + 46 = 69$

$20 + 40 = 60$	$3 + 6 = 9$
$60 + 9 = 69$	

15. $56 + 49 = 105$

$50 + 40 = 90$	$6 + 9 = 15$
$90 + 15 = 105$	

20. $52 + 38 = 90$

$50 + 30 = 80$	$2 + 8 = 10$
$80 + 10 = 90$	