

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. $15 + 32 = \underline{\quad}$

$10 + 30 =$	$5 + 2 =$

2. $43 + 22 = \underline{\quad}$

$40 + 20 =$	$3 + 2 =$

3. $18 + 18 = \underline{\quad}$

$10 + 10 =$	$8 + 8 =$

4. $46 + 30 = \underline{\quad}$

$40 + 30 =$	$6 + 0 =$

5. $20 + 19 = \underline{\quad}$

$20 + 10 =$	$0 + 9 =$

6. $47 + 35 = \underline{\quad}$

$40 + 30 =$	$7 + 5 =$

7. $18 + 27 = \underline{\quad}$

$10 + 20 =$	$8 + 7 =$

8. $31 + 28 = \underline{\quad}$

$30 + 20 =$	$1 + 8 =$

9. $48 + 26 = \underline{\quad}$

$40 + 20 =$	$8 + 6 =$

10. $21 + 30 = \underline{\quad}$

$20 + 30 =$	$1 + 0 =$

Addition Using the Bar Model Two-digit Numbers

11. $24 + 46 = \underline{\quad}$

$20 + 40 =$	$4 + 6 =$

16. $18 + 42 = \underline{\quad}$

$10 + 40 =$	$8 + 2 =$

12. $13 + 49 = \underline{\quad}$

$10 + 40 =$	$3 + 9 =$

17. $24 + 29 = \underline{\quad}$

$20 + 20 =$	$4 + 9 =$

13. $29 + 41 = \underline{\quad}$

$20 + 40 =$	$9 + 1 =$

18. $12 + 37 = \underline{\quad}$

$10 + 30 =$	$2 + 7 =$

14. $18 + 24 = \underline{\quad}$

$10 + 20 =$	$8 + 4 =$

19. $25 + 41 = \underline{\quad}$

$20 + 40 =$	$5 + 1 =$

15. $38 + 35 = \underline{\quad}$

$30 + 30 =$	$8 + 5 =$

20. $11 + 44 = \underline{\quad}$

$10 + 40 =$	$1 + 4 =$

Answers

1. $15 + 32 = 47$

$10 + 30 = 40$	$5 + 2 = 7$
$40 + 7 = 47$	

6. $47 + 35 = 82$

$40 + 30 = 70$	$7 + 5 = 12$
$70 + 12 = 82$	

2. $43 + 22 = 65$

$40 + 20 = 60$	$3 + 2 = 5$
$60 + 5 = 65$	

7. $18 + 27 = 45$

$10 + 20 = 30$	$8 + 7 = 15$
$30 + 15 = 45$	

3. $18 + 18 = 36$

$10 + 10 = 20$	$8 + 8 = 16$
$20 + 16 = 36$	

8. $31 + 28 = 59$

$30 + 20 = 50$	$1 + 8 = 9$
$50 + 9 = 59$	

4. $46 + 30 = 76$

$40 + 30 = 70$	$6 + 0 = 6$
$70 + 6 = 76$	

9. $48 + 26 = 74$

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

5. $20 + 19 = 39$

$20 + 10 = 30$	$0 + 9 = 9$
$30 + 9 = 39$	

10. $21 + 30 = 51$

$20 + 30 = 50$	$1 + 0 = 1$
$50 + 1 = 51$	

11. $24 + 46 = 70$

$20 + 40 = 60$	$4 + 6 = 10$
$60 + 10 = 70$	

16. $18 + 42 = 60$

$10 + 40 = 50$	$8 + 2 = 10$
$50 + 10 = 60$	

12. $13 + 49 = 62$

$10 + 40 = 50$	$3 + 9 = 12$
$50 + 12 = 62$	

17. $24 + 29 = 53$

$20 + 20 = 40$	$4 + 9 = 13$
$40 + 13 = 53$	

13. $29 + 41 = 70$

$20 + 40 = 60$	$9 + 1 = 10$
$60 + 10 = 70$	

18. $12 + 37 = 49$

$10 + 30 = 40$	$2 + 7 = 9$
$40 + 9 = 49$	

14. $18 + 24 = 42$

$10 + 20 = 30$	$8 + 4 = 12$
$30 + 12 = 42$	

19. $25 + 41 = 66$

$20 + 40 = 60$	$5 + 1 = 6$
$60 + 6 = 66$	

15. $38 + 35 = 73$

$30 + 30 = 60$	$8 + 5 = 13$
$60 + 13 = 73$	

20. $11 + 44 = 55$

$10 + 40 = 50$	$1 + 4 = 5$
$50 + 5 = 55$	