

Multiply Numbers Mentally Drawing Upon Known Facts

LO: I can apply my knowledge of times tables to multiplying larger numbers.

Demonstration:

$$18 \times 12 =$$

Partition: $18 = 12 + 6$

$$12 \times 12 = 144, 6 \times 12 = 72 \text{ (half of 144)}$$

$$18 \times 12 = 144 + 72 = 216$$

Use your knowledge of times tables and partitioning to calculate the following:

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|----------------------|----------------------|----------------------|----------------------|
| 1. $14 \times 9 =$ | 16. $17 \times 4 =$ | 31. $25 \times 6 =$ | 46. $32 \times 8 =$ |
| 2. $19 \times 7 =$ | 17. $18 \times 7 =$ | 32. $29 \times 7 =$ | 47. $33 \times 4 =$ |
| 3. $21 \times 9 =$ | 18. $21 \times 11 =$ | 33. $30 \times 9 =$ | 48. $35 \times 7 =$ |
| 4. $17 \times 9 =$ | 19. $14 \times 9 =$ | 34. $32 \times 4 =$ | 49. $30 \times 7 =$ |
| 5. $14 \times 7 =$ | 20. $14 \times 10 =$ | 35. $28 \times 5 =$ | 50. $32 \times 12 =$ |
| 6. $13 \times 12 =$ | 21. $19 \times 8 =$ | 36. $33 \times 6 =$ | 51. $33 \times 3 =$ |
| 7. $21 \times 6 =$ | 22. $22 \times 12 =$ | 37. $25 \times 10 =$ | 52. $29 \times 3 =$ |
| 8. $16 \times 11 =$ | 23. $17 \times 2 =$ | 38. $30 \times 12 =$ | 53. $31 \times 7 =$ |
| 9. $13 \times 3 =$ | 24. $20 \times 10 =$ | 39. $35 \times 9 =$ | 54. $27 \times 6 =$ |
| 10. $16 \times 2 =$ | 25. $21 \times 6 =$ | 40. $32 \times 7 =$ | 55. $28 \times 12 =$ |
| 11. $15 \times 9 =$ | 26. $23 \times 4 =$ | 41. $33 \times 11 =$ | 56. $32 \times 3 =$ |
| 12. $18 \times 5 =$ | 27. $24 \times 11 =$ | 42. $32 \times 3 =$ | 57. $27 \times 3 =$ |
| 13. $20 \times 12 =$ | 28. $18 \times 9 =$ | 43. $36 \times 10 =$ | 58. $27 \times 10 =$ |
| 14. $24 \times 9 =$ | 29. $17 \times 12 =$ | 44. $34 \times 11 =$ | 59. $32 \times 5 =$ |
| 15. $13 \times 10 =$ | 30. $20 \times 2 =$ | 45. $28 \times 6 =$ | 60. $25 \times 7 =$ |

Multiply Numbers Mentally Drawing Upon Known Facts Answers

question	answer		
1	126	31	150
2	133	32	203
3	189	33	270
4	153	34	128
5	98	35	140
6	156	36	198
7	126	37	250
8	176	38	360
9	39	39	315
10	32	40	224
11	135	41	363
12	90	42	96
13	240	43	360
14	216	44	374
15	130	45	168
16	68	46	256
17	126	47	132
18	231	48	245
19	126	49	210
20	140	50	384
21	152	51	99
22	264	52	87
23	34	53	217
24	200	54	162
25	126	55	336
26	92	56	96
27	264	57	81
28	162	58	270
29	204	59	160
30	40	60	175