

# LO: Multiply using a written method.

## Repeated addition

Useful if you are only multiplying by a small number.

e.g.  $4 \times 32$

$$\begin{array}{r} 32 \\ 32 \\ 32 \\ \underline{32} + \\ 128 \end{array}$$

## Column

The traditional method for multiplication.

e.g.  $42 \times 32$

$$\begin{array}{r} 42 \\ \underline{32} \times \\ 84 \\ \underline{1260} + \\ 1344 \\ 1 \end{array}$$

## Grid

	40	2	
30	120 0	60	
2	80	4	

$$\begin{array}{r} 1200 \\ 60 \\ 80 \\ \underline{4} + \\ 1344 \\ 1 \end{array}$$

## Gelosia/Chinese/Napiers

	4	2	
1	1	0	3
2	0	6	2
3	8	4	

## Try these

- |                  |                   |                    |                    |
|------------------|-------------------|--------------------|--------------------|
| 1. $8 \times 20$ | 6. $3 \times 90$  | 11. $20 \times 90$ | 16. $20 \times 90$ |
| 2. $7 \times 30$ | 7. $4 \times 50$  | 12. $40 \times 30$ | 17. $40 \times 30$ |
| 3. $2 \times 40$ | 8. $9 \times 40$  | 13. $80 \times 20$ | 18. $80 \times 20$ |
| 4. $6 \times 30$ | 9. $5 \times 30$  | 14. $50 \times 80$ | 19. $50 \times 80$ |
| 5. $5 \times 50$ | 10. $6 \times 50$ | 15. $90 \times 40$ | 20. $90 \times 40$ |

## Try these

21.  $2 \times 25$

26.  $5 \times 25$

31.  $8 \times 23$

36.  $8 \times 23$

22.  $2 \times 33$

27.  $5 \times 33$

32.  $9 \times 25$

37.  $9 \times 25$

23.  $2 \times 42$

28.  $5 \times 42$

33.  $7 \times 31$

38.  $7 \times 31$

24.  $2 \times 81$

29.  $5 \times 81$

34.  $3 \times 56$

39.  $3 \times 56$

25.  $2 \times 94$

30.  $5 \times 94$

35.  $4 \times 29$

40.  $4 \times 29$

41.  $21 \times 25$

46.  $560 \times 26$

42.  $35 \times 33$

47.  $920 \times 33$

43.  $27 \times 42$

48.  $890 \times 47$

44.  $45 \times 81$

49.  $420 \times 51$

45.  $62 \times 94$

50.  $630 \times 49$

51.  $528 \times 26$

56.  $5.30 \times 72$

52.  $309 \times 47$

57.  $82.56 \times 23$

53.  $382 \times 95$

58.  $2.25 \times 3.2$

54.  $205 \times 59$

59.  $9.43 \times 2.3$

55.  $637 \times 23$

60.  $12.2 \times 0.05$