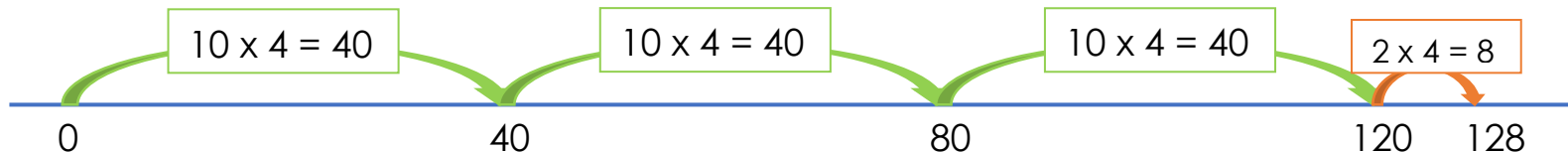


We can use a number line to solve multiplication problems... 32×4

1) partition 32 into 30 + 2

2) partition 30 into 10 + 10 = 10

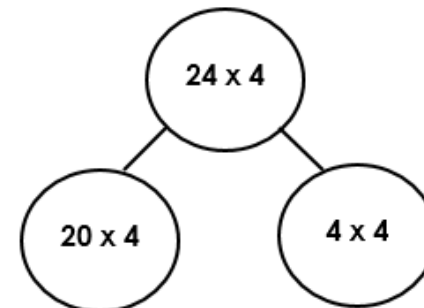


VOCABULARY

- written method
- multiply
- calculate
- partition
- column
- exchange

Tens	Ones

24×4



Formal written method 2-digit x 1-digit

start here

	T	O
	1	8
X		6
<hr/>		
1	0	8
<hr/>		
		4

18×6

- 1) $8 \times 6 = 48$
- 2) $10 \times 6 = 60$
- 3) $60 + 4 \text{ tens}$ exchanged = 100

Formal written method 3-digit x 1-digit

start here

	H	T	O
	1	4	8
X			4
<hr/>			
	5	9	2
<hr/>			
	1	3	

148×4

- 1) $8 \times 4 = 32$
- 2) $40 \times 4 = 160$
- 3) $160 + 3 \text{ tens}$ exchanged = 190
- 4) $100 \times 4 = 400$
- 5) $400 + 1 \text{ hundred}$ exchanged = 500