

m2.L4

$$\underline{8 \times 31}$$

= 8 thirty-ones

$$\boxed{= 31 \text{ eights}}$$

$$\begin{array}{c} 31 \\ \swarrow \quad \searrow \\ 30 \quad + \quad 1 \end{array}$$

30 eights + 1 eight

$$\boxed{8|8|\dots|8} + \boxed{8}$$

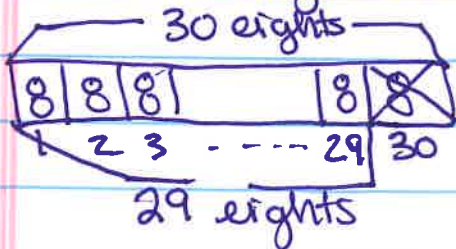
1 2 ..... 30 1

$$\begin{aligned} & (30 \times 8) + (1 \times 8) \\ & = 240 + 8 \\ & = 248 \end{aligned}$$

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$$8 \times 29$$

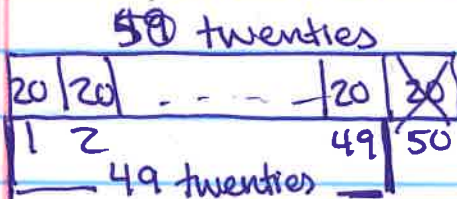
29 eights = 30 eights - 1 eight



$$\begin{aligned} & (30 \times 8) - (1 \times 8) \\ & 240 - 8 \\ & = 232 \end{aligned}$$

$$49 \times 20$$

$$49 \text{ twenties} = 50 \text{ twenties} - 1 \text{ twenty}$$



$$(50 \times 20) - (1 \times 20)$$
$$1000 - 20$$
$$= 980$$

$$20 \times 51$$

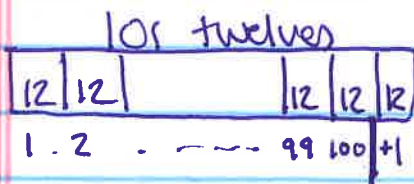
$$51 \text{ twenties} = 50 \text{ twenties} + 1 \text{ twenty}$$

20	20	...	20	20	20
1	2	...	49	50	+1

$$(50 \times 20) + (1 \times 20)$$
$$1000 + 20$$
$$= 1020$$

$$101 \times 12$$

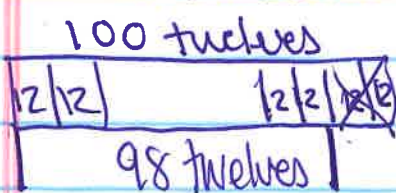
$$101 \text{ twelves} = 100 \text{ twelves} + 1 \text{ twelve}$$



$$(100 \times 12) + (1 \times 12)$$
$$1200 + 12$$
$$= 1212$$

$$12 \times 98$$

$$98 \text{ twelves} = 100 \text{ twelves} - 2 \text{ twelves}$$



$$(100 \times 12) - (2 \times 12)$$
$$1200 - 24$$
$$= 1176$$