

## MULTIPLYING BY 25

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What do 22 books at \$25 each cost?

I know that  $4 \times 25 = 100$ .  
I can put the books into lots of 4.  
 $22 = (5 \times 4) + 2$ .



**Nayla**



$$\begin{aligned} 22 \times 25 &= (5 \times 4) \times 25 + 2 \times 25 \\ &= 5 \times (4 \times 25) + 2 \times 25 \\ &= 5 \times 100 + 2 \times 25 \\ &= \$500 + \$50 \\ &= \$550 \end{aligned}$$

**Hudson**



$$\begin{aligned} \text{I know that } 25 &= 100 \div 4 \\ 22 \times 25 &= 22 \times (100 \div 4) \\ &= 22 \times 100 \div 4 \\ &= 2200 \div 4 \\ &= (2000 \div 4) + (200 \div 4) \\ &= 500 + 50 \\ &= \$550 \end{aligned}$$

Explain how Nayla and Hudson get their answers. Which way do you like better?

If your partner/group like the other way better, try and convince your partner/group why your choice is better.

## MULTIPLYING BY 25 CONTINUED

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Work out the answers to these

- 1 Use either Nayla's or Hudson's way from the discussion on the previous view, to work these out.

- a Missy and her friends wanted to buy 25 tickets. How much will this cost altogether?



- b  Before the dance the 25 friends went out to dinner. If they all had a main and desert, how much did this cost in total?

- 2 Hemi's Kapa haka group are raising money to travel to the finals of a competition. They took some photos and made a calendar, which they are selling for \$25.

How much money did Hemi and each of his friends get for the calendars they sold?

| KAPA HAKA<br>CALENDAR SALES |              |
|-----------------------------|--------------|
| Hemi<br>25                  | Tane<br>52   |
| Sam<br>64                   | Rangi<br>112 |
| Aroha<br>99                 | Whetu<br>184 |