



Sense of managing numbers in sets-315

Is $12 \times 3 + 8 \times 3 = (12 + 8) \times 3$???

$$\begin{aligned}
 & 12 \times 3 + 8 \times 3 \\
 &= 12+12+12 + 8+8+8 \leftarrow \text{Repeated addition} \\
 &= 12+8 + 12+8 + 12+8 \\
 &= (12+8) + (12+8) + (12+8) \leftarrow \text{How many (12+8)?} \\
 &= (12 + 8) \times 3 \quad \text{Yes they are the same!}
 \end{aligned}$$

If each one times 3, we can add them up first and then times 3.

Exercise:

Try packing up the numbers with bracket and rewrite them with multiplication forms.

1.) $5 \times 3 + 7 \times 3 = (\underline{\quad} + \underline{\quad}) \times \underline{\quad} = \underline{\quad}$

2.) $6 \times 4 + 8 \times 4 = (\underline{\quad} + \underline{\quad}) \times \underline{\quad} = \underline{\quad}$

3.) $13 \times 2 + 5 \times 2 = (\underline{\quad} - \underline{\quad}) \times \underline{\quad} = \underline{\quad}$

4.) $4 \times 5 + 9 \times 5 = (4+9) \times \underline{\quad} = \underline{\quad}$

5.) $26 \times 3 + 4 \times 3 = (26+4) \times \underline{\quad} = \underline{\quad}$

6.) $14 \times 7 + 8 \times 7 = (\underline{\quad}) \times \underline{\quad} = \underline{\quad}$

Pack up!

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7.) $23 \times 3 + 7 \times 3 = (\underline{\hspace{2cm}}) \times \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$










8.) $43 \times 4 + 18 \times 4 = (\underline{\hspace{2cm}}) \times \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$

9.) $56 \times 12 + 44 \times 12 = (\underline{\hspace{2cm}}) \times \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$

10.) $83 \times 8 + 7 \times 8 = (\underline{\hspace{2cm}}) \times \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$

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We want to buy ourselves breakfast. Fill up the table with the total price of the breakfast.

								
\$24	\$21	\$18	\$17	\$12	\$8	\$16	\$23	\$19

	Drink	Food	Row Form	Total Price
eg	7 bottles of water	7 eggs	$(17 + 12) \times 7$	\$ 203
11	5 cups of chocolate	5 croissants		\$
12	4 glasses of lemon coke	4 drumsticks		\$
13	8 bottles of milk	8 croissants		\$
14	3 bottles of water	3 hotdogs		\$
15	2 cups of chocolate	2 eggs		\$
16	5 bottles of milk	5 sausages		\$