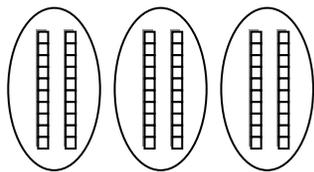


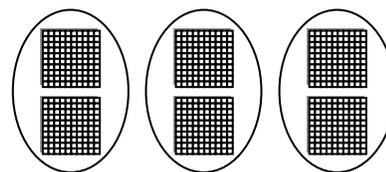
NS4-30: Multiples of 10

To multiply 3×20 , Christie makes 3 groups containing 2 tens blocks ($20 = 2$ tens).



$$3 \times 20 = 3 \times 2 \text{ tens} = 6 \text{ tens} = 60$$

To multiply 3×200 , Christie makes 3 groups containing 2 hundreds blocks ($200 = 2$ hundreds).



$$3 \times 200 = 3 \times 2 \text{ hundreds} = 6 \text{ hundreds} = 600$$

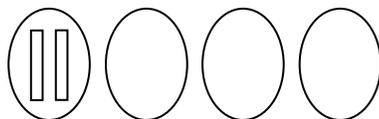
Christie notices a pattern: $3 \times 2 = 6$

$3 \times 20 = 60$

$3 \times 200 = 600$

1. Draw a model for each multiplication statement, then calculate the answer. The first one is started.

a) 4×20



b) 2×30

$$4 \times 20 = 4 \times \underline{2} \text{ tens} = \underline{\quad} \text{ tens} = \underline{\quad}$$

$$2 \times 30 = 2 \times \underline{\quad} \text{ tens} = \underline{\quad} \text{ tens} = \underline{\quad}$$

2. Regroup to find the answer. The first one is done for you.

a) $3 \times 70 = 3 \times \underline{7} \text{ tens} = \underline{21} \text{ tens} = \underline{210}$

b) $3 \times 50 = 3 \times \underline{\quad} \text{ tens} = \underline{\quad} \text{ tens} = \underline{\quad}$

c) $5 \times 50 = 5 \times \underline{\quad} \text{ tens} = \underline{\quad} \text{ tens} = \underline{\quad}$

d) $4 \times 60 = 4 \times \underline{\quad} \text{ tens} = \underline{\quad} \text{ tens} = \underline{\quad}$

3. Complete the pattern by multiplying.

a) $2 \times 2 = \underline{\quad}$

b) $5 \times 1 = \underline{\quad}$

c) $2 \times 4 = \underline{\quad}$

d) $3 \times 3 = \underline{\quad}$

$2 \times 20 = \underline{\quad}$

$5 \times 10 = \underline{\quad}$

$2 \times 40 = \underline{\quad}$

$3 \times 30 = \underline{\quad}$

$2 \times 200 = \underline{\quad}$

$5 \times 100 = \underline{\quad}$

$2 \times 400 = \underline{\quad}$

$3 \times 300 = \underline{\quad}$

4. Multiply.

a) $4 \times 30 = \underline{\quad}$

b) $5 \times 30 = \underline{\quad}$

c) $4 \times 40 = \underline{\quad}$

d) $2 \times 50 = \underline{\quad}$

e) $3 \times 100 = \underline{\quad}$

f) $4 \times 500 = \underline{\quad}$

g) $3 \times 60 = \underline{\quad}$

h) $6 \times 400 = \underline{\quad}$

i) $2 \times 700 = \underline{\quad}$

j) $6 \times 70 = \underline{\quad}$

k) $8 \times 40 = \underline{\quad}$

l) $2 \times 900 = \underline{\quad}$



5. Draw a base ten model (using cubes to represent thousands) to show: $4 \times 1000 = 4000$.

6. Knowing that $3 \times 2 = 6$, how can you use this fact to multiply 3×2000 ?