

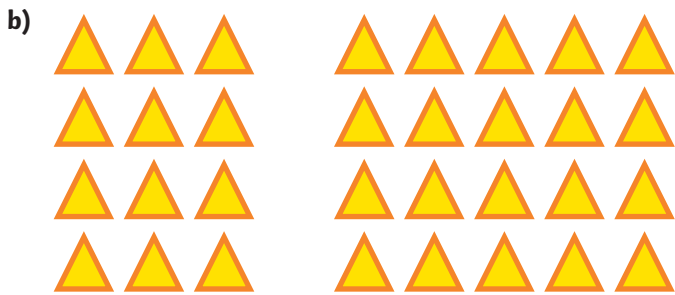
Reasoning About Multiplication



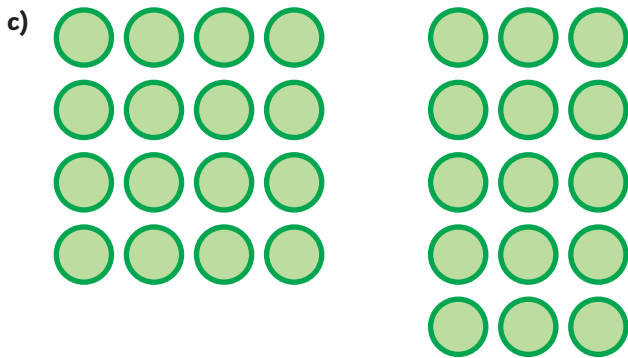
1) Complete the multiplication calculations to describe the arrays. Write $<$, $>$ or $=$ in each box to compare the calculations.



$5 \times 3 = \underline{\hspace{2cm}}$ $3 \times 3 = \underline{\hspace{2cm}}$



$3 \times 4 = \underline{\hspace{2cm}}$ $5 \times 4 = \underline{\hspace{2cm}}$



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2) Write $<$, $>$ or $=$ to compare the multiplication calculations.

a) 5×2 2×5

b) 8×3 4×6

c) 7×5 5×5

d) 4×20 8×20



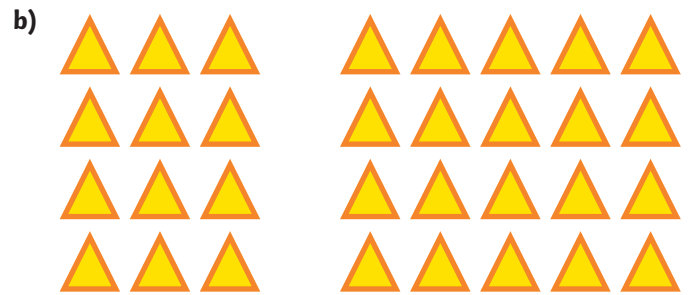
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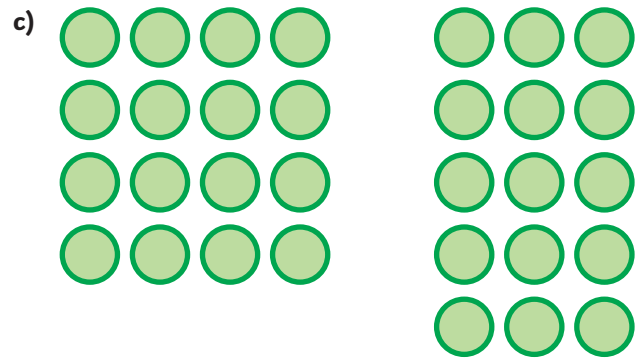
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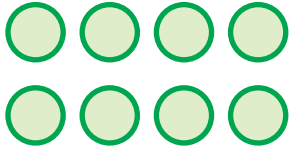
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Reasoning About Multiplication



- 1) Emily has created an array. Do you agree with her statement? Explain your reasoning.



My array represents 2×8 .

Emily

- 2) Which is the odd one out? Give reasons for your choice.

A

$$4 \times 5 = 10 \times 2$$

B

$$5 \times 4 = 2 \times 5 + 2 \times 5$$

C

$$3 \times 4 = 2 \times 6$$

- 3) Do you agree with Bartek? Explain your reasoning.



$8 \times 3 = 24$
so $16 \times 3 = 48$.

Bartek

- 4) Are these statements true or false? Explain your reasoning.

A

$$3 \times 4 < \text{half of } 4 \times 6$$

B

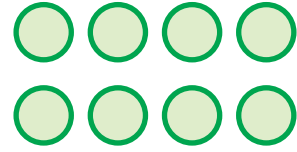
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Reasoning About Multiplication



1) Complete the number statements.

a) $4 \times 3 > \underline{\quad} \times 4$

b) $\underline{\quad} \times 6 = 3 \times 8$

c) $5 \times 5 < 4 \times \underline{\quad}$

d) $12 \times 3 > \underline{\quad} \times \underline{\quad}$

2) What number is Amrit thinking of?



Amrit

When multiplied by 5, my number gives the same answer as half of 3×10 .

3) Use the number statement cards to complete the number sentences.

3×4	2×3	$4 \times 3 \times 2$
5×4	$2 \times 2 \times 2$	2×6

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4) Use each of the digits 1 to 9 once to make all of the statements correct.

1	2	3	4	5	6	7	8	9
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$\times 4 =$ $\times 4 +$ $\times 4$

$\times 3 = 2 \times$ $\times 3$

$\times 6 =$ $\times 3$

$\times 5 =$ $\times 7$



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