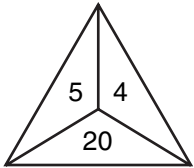


# Challenge

## Are We Related?

Nancy Number is trying to find who is related to whom. She needs your help in deciding if the groups of numbers are just friends or if they are related. In each triangle below, there are three numbers. If possible, write four related equations on the lines provided. If not, write the word "friends" below the triangle and write the numbers in the box marked "friends."

1.

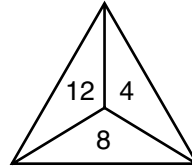



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2.

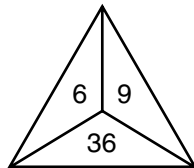



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3.

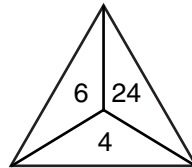



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4.

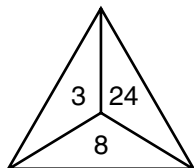



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5.

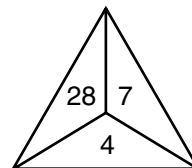



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6.




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Could you write related equations for any of the numbers in the "friends" box?  
Show your work.

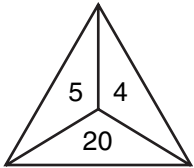
FRIENDS

# Challenge

## Are We Related?

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1.

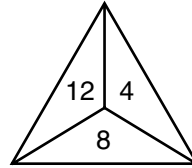


**Possible  
answer shown:**

$$5 \times 4 = 20; 4 \times 5 = 20;$$

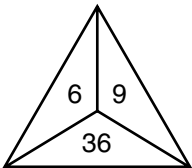
$$20 \div 4 = 5; 20 \div 5 = 4$$

2.



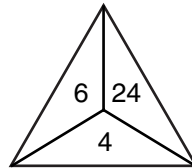
**friends**

3.



**friends**

4.

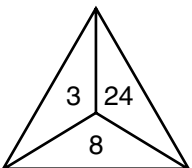


**Possible  
answer shown:**

$$4 \times 6 = 24; 6 \times 4 = 24;$$

$$24 \div 4 = 6; 24 \div 6 = 4$$

5.

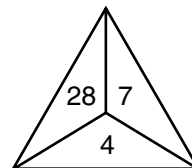


**Possible  
answer shown:**

$$8 \times 3 = 24; 3 \times 8 = 24;$$

$$24 \div 3 = 8; 24 \div 8 = 3$$

6.



$$7 \times 4 = 28; 4 \times 7 = 28$$

$$28 \div 4 = 7; 28 \div 7 = 4$$

Could you write related equations for any of the numbers in the “friends” box?  
Show your work.

**FRIENDS**

**4, 8, 12, 6, 9, 36; 4, 9, and 36 are related:  $9 \times 4 = 36$ ,  
 $4 \times 9 = 36$ ,  $36 \div 4 = 9$ ,  $36 \div 9 = 4$ .**