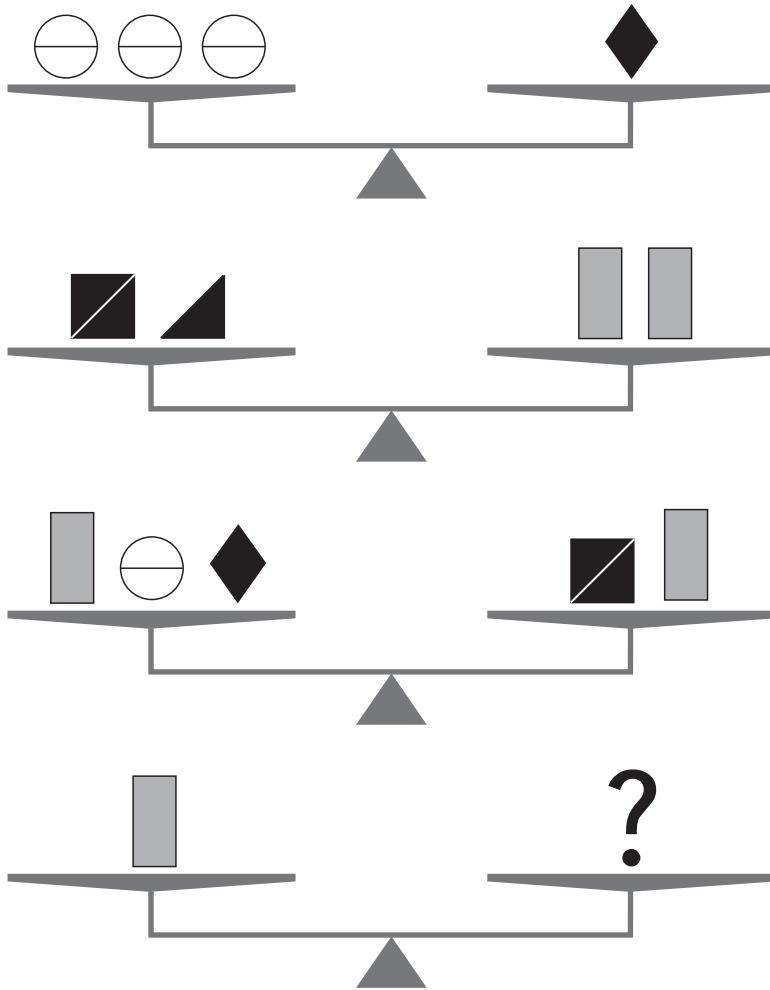


# Balance Benders™



Which answer can replace the question mark?



a.  $\bigcirc \cup$

b.  $\bigcirc \bigcirc$

c.  $\bigcirc \bigcirc \cup$

d.  $\bigcirc \bigcirc \bigcirc$

Circle the two answers below that will always be true.

1.  $\bigcirc \bigcirc \bigcirc = \blacksquare$

2.  $\bigcirc \bigcirc \bigcirc \bigcirc = \blacksquare$

3.  $\square \square = \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$






















4.  $\blacksquare \blacklozenge = \bigcirc \bigcirc \bigcirc$


















Hint: On 3rd balance, remove  $\square$  from both pans.








# ANSWER

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On 3rd balance, remove  from both pans so   = . From 1st balance, substitute    for  on 3rd balance so     =  (Answer 2). Divide in half so  =  and   =    

 . On 2nd balance, substitute       for   so       = 

 (Answer 3). Therefore,  =   .