

1. Solve the problems below.

1. Julia enciphered the word APPLE with numbers. Which of these codes could be the word APPLE?

- a) 12345 b) 12234 c) 1234 d) 13221

2. Billy enciphered the word ROAR with numbers. Which of these codes could be the word ROAR?

- a) 3223 b) 3243 c) 1122 d) 1234

3. Michael enciphered the word MOTOR with numbers. Which of these codes could be the word MOTOR?

- a) 12345 b) 11223 c) 12324 d) 12121

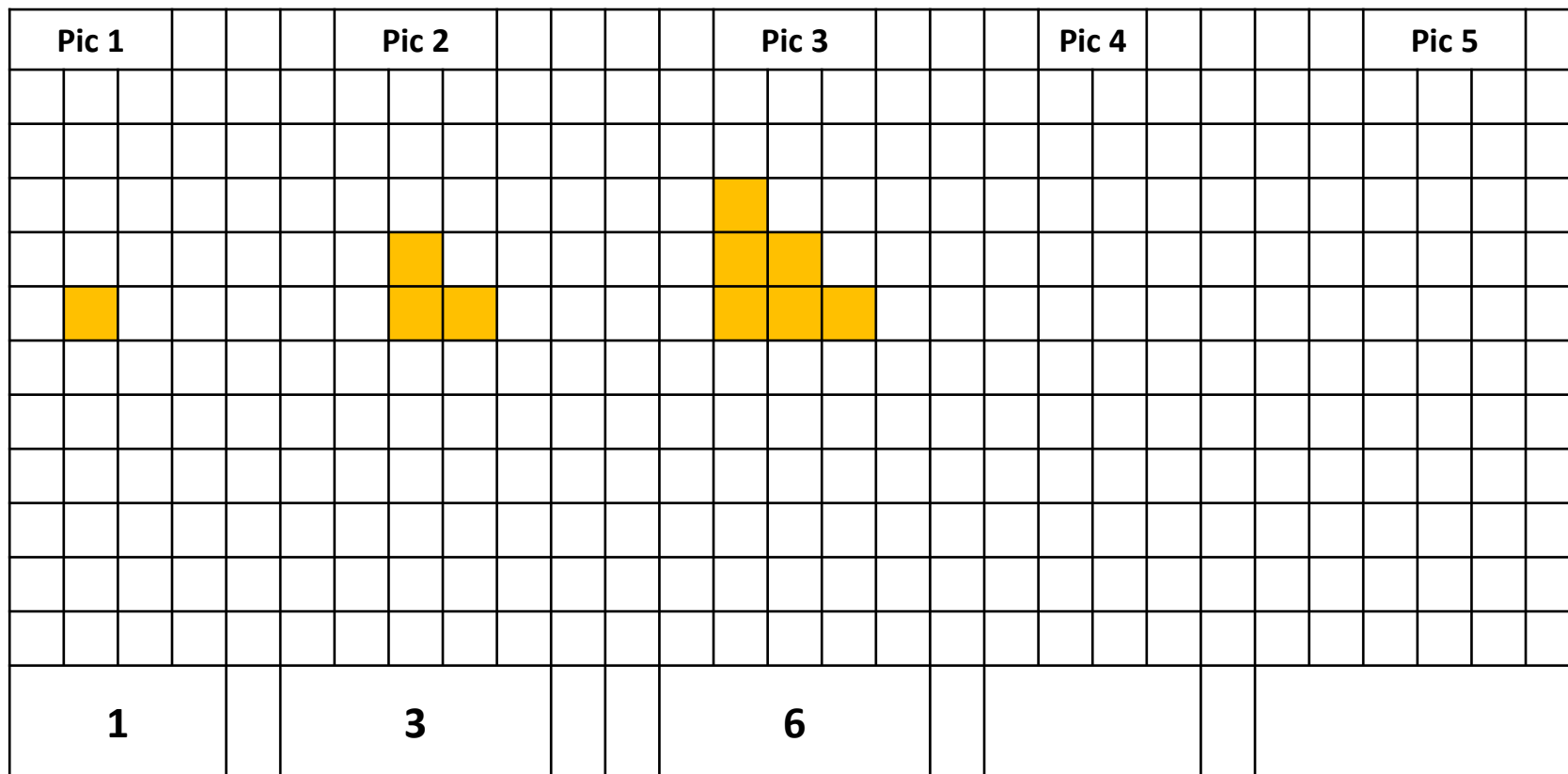
4. Jane enciphered the word BOOK with symbols. Which of these codes could be the word BOOK?

- a) ♣△△□ b) ∩△□⊠
c) ♣♣♣△ d) △♣⊠□

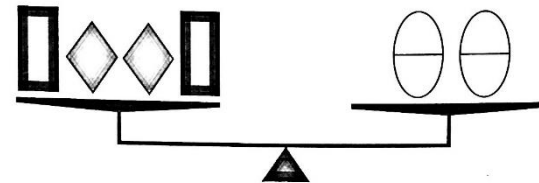
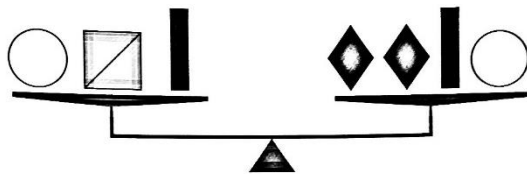
5. Andy enciphered the word PIZZA with symbols. Which of these codes could be the word PIZZA?

- a) ♣∩△△□ b) ∩△□⊠♣
c) ♣♣♣△△ d) △♣⊠□□





2. Continue the sequence.







3. For each of the problems below, the scales are in balance. Circle the THREE answers that must always be true.



a.  = 



d.   =  



b.   =  

e.    =   


c.   = 



f.   =  




a.  < 

d.  > 

b.  > 

e.   = 

c.  > 

f.   > 

4. Kangaroo practice problems

1. All of the kids in Allison's class lined up to go out for recess. Allison counted 12 kids in front of her and 8 kids behind her. How many kids are in Allison's class?

2. There is an equal number of rabbits and squirrels in the woods. There are more birds than rabbits, and fewer foxes than squirrels. Are there more birds or foxes?

13. A dragon has 3 heads. Every time a hero cuts off 1 head, 3 new heads grow. The hero cuts 1 head off and then he cuts 1 head off again. How many heads does the dragon have now?

- A) 4 B) 5 C) 6 D) 7 E) 8