

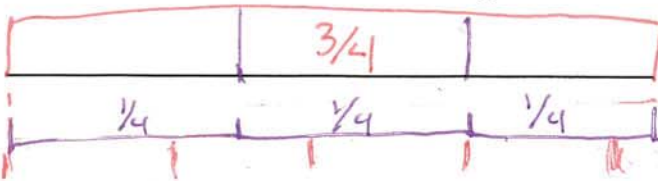
→ **Extensions**

1. Pirate Jack buried $\frac{1}{2}$ of his treasure. He gave $\frac{1}{3}$ of the remaining treasure to his trusty mate Pirate Joe. Pirate Joe received \$3000 in gold. Exactly how much gold was in Pirate Jack's whole treasure? Draw a picture to show the solution.

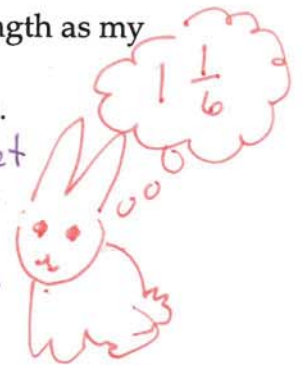
2. Joshkin built a tower using blocks that linked together. I noticed that he had 27 blocks in $\frac{3}{7}$ of his tower. Exactly how many blocks were in this entire tower?

Provide a clear description of your solution strategy.

3. The line below is $\frac{3}{4}$ as long as a ribbon I have. Draw a line the same length as my ribbon and another line that is $1\frac{1}{6}$ as long as my ribbon. Label the lines.



split into 3 to get 3 fourths



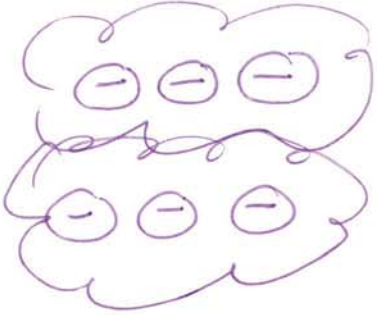
take whole - split first $\frac{1}{2}$ into 3 parts and second $\frac{1}{2}$ part into 3 parts : this makes sixths (6 equal parts)



draw 1 whole and add on 1 more sixth

pictures

$$2 \times (-3)$$



What & why

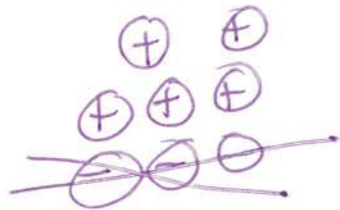
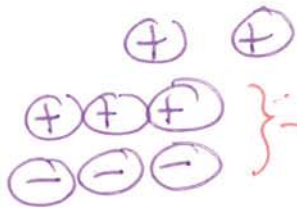
means 2 groups of -3

put 3- in a group
and 3- in another group

Add them up to get -6

picture(s)

$$2 - (-3)$$



what to do & why

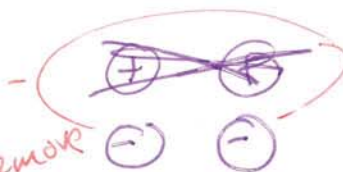
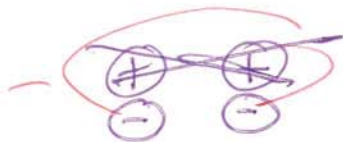
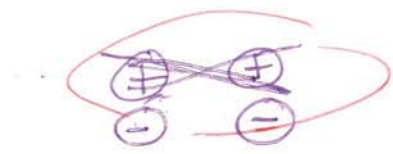
put out 2+ chips
for number 2

put out 3+ and 3- chips
there are no \ominus to take
away, so put out 3 zeros.

this is like borrowing \$3: I
get \$3 and owe \$3.

Cross out 3- chips
cross out to subtract.
Take away the 3 \ominus to subtract
-3
Answer is 5+ chips
= 5

$$2 \times (-3)$$



remove
chips

means 2 per group and -3 groups
means take away 3 groups with
2 per group

start w/ 3 groups of $\overbrace{2 \oplus \ominus}^{\text{zero}}$
in each group

take away those groups

3 groups of $2 \oplus$

Have -6 Left.