

Teamwork



Get Started



Get paper and a pencil.

Put **1** **2** **3** **4** in a bag.

Repeat for Each Round

Choose **a**, **b**, or **c**.

Pick a tile. Pick two tiles if your group has only two students.

Do the jobs listed below in order.

To find your job, find the number that matches the tile you chose.

- 1** Read the problem. Tell your group what you know and what you are asked to find.
- 2** Explain the steps your team should take to solve the problem by working backward.
- 3** Work backward with your team to solve the problem.
- 4** Check your team's answer. Make sure it is correct. Explain why.

- a. Angie and Carmen played a number game. Angie told Carmen to pick any number. Then she told Carmen to multiply her number by 4, then add 6, then divide by 3 and then subtract 12. Carmen said she got 18 after doing all of the steps. What number did Carmen pick?



- b. Kevin gave $\frac{1}{6}$ of his baseball cards to Albert. He gave a fractional part to Sam and then put $\frac{3}{4}$ of the cards in a box for himself. What fractional part did he give to Sam?

- c. Jose measured a plant in his room every 4 weeks. By the 4th week it had grown $\frac{3}{4}$ of an inch. After the 8th week it had grown another $\frac{1}{2}$ inch and by the 12th week, it had grown another $\frac{7}{8}$ inch. After 12 weeks the plant is 9 inches tall. How tall was the plant 12 weeks ago?



If you have more time



Create another problem that can be solved by working backward. Repeat steps 1 – 4 for your problem.