ESCAPE GRADE 3 FRACTIONS

To use this Escape cut the first 5 pages into the 4 parts as indicated. Each of the four cards on those pages will have the same answer. I tried to differentiate the level of complexity for finding the answer.

Before starting the Escape, explain to students that although they are all working together to crack the code, they must all complete their own worksheet. They may work cooperatively to get the answers but everyone must be able to defend their answers as you reserve the right to ask any of the teammates to explain how to solve any of the problems.

Pass the cards out to students. They find the answer to their card and then find their teammates who will all have the same answer.

Once the students are in their teams, give them the recording page for the three lock combinations as well as the first set of clues which will lead them to the 4-digit combination for the first lock. If you copy the pages front/back you will be able to give them just a single page.

Teams work together to answer the questions and get the 4-digit code to each lock. After they get the code for the first lock, they show the teacher, you check it and can also check their papers for work as well. If you feel one person on the team did all the work, you can question others to check for an understanding. When you are pleased with their understanding, they get the next set of clues and the Escape continues until they are able to get all locks unlocked.
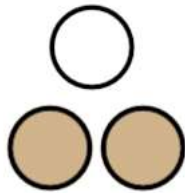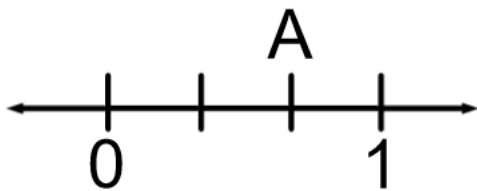
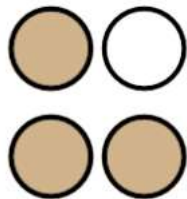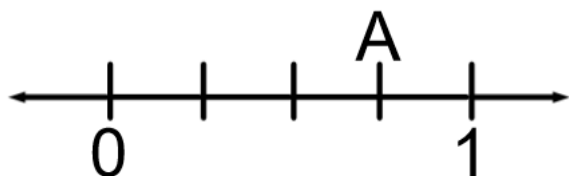| What fraction is shaded?	What fraction is shaded?
Where is point A on the number line?	How much do I have if I have 2 pieces of size $\frac{1}{3}$?

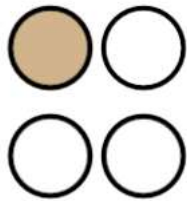| What fraction is shaded?	What fraction is shaded?
Where is point A on the number line?	How much do I have if I have 3 pieces of size $\frac{1}{4}$?
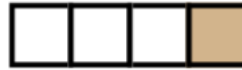
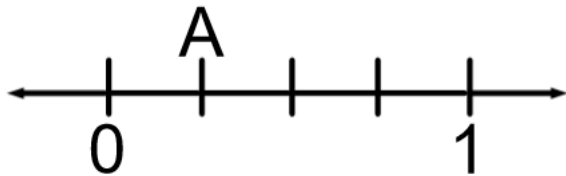| What fraction is shaded?	What fraction is shaded?
Where is point A on the number line?	How much do I have if I have 1 of 4 equal parts that make a whole?

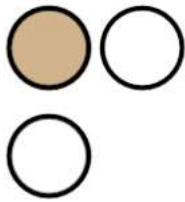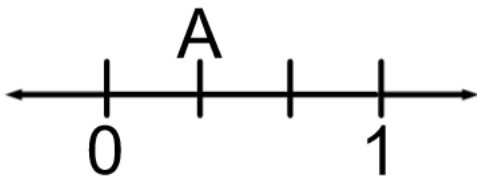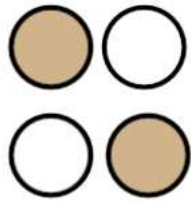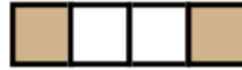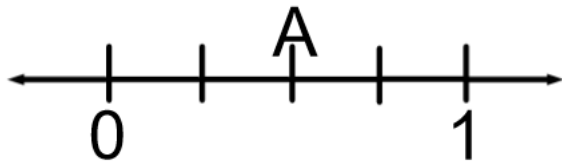|	
What fraction is shaded?	What fraction is shaded?
Where is point A on the number line?	How much do I have if I have 1 of 3 equal parts that make a whole?

What fraction is shaded?	What fraction is shaded?
Where is point A on the number line?	How much do I have if I have 2 pieces of size $\frac{1}{4}$?

**You must work together to Escape! There are 3 locks that must be opened.
Each lock has its own unique combination.**

Find the combination to each lock to break free. Good luck!

First Lock

Did you crack the code? What is the combination for the first lock? Once you know, show your teacher.

_____   _____   _____   _____

Second Lock

Did you crack the code? What is the combination for the second lock? Once you know, show your teacher.

_____   _____   _____   _____

Third Lock

Did you crack the code? What is the combination for the third lock? Once you know, show your teacher.

_____   _____   _____   _____

Can you crack the code on the first lock? You will need to think about all you have learned this year to find success. Good luck.

The distance between Liam's home and his school is exactly 1 mile, as shown on the number line below.
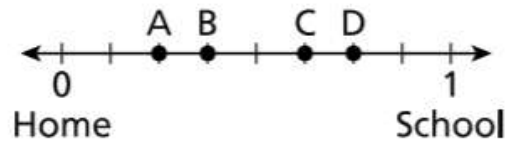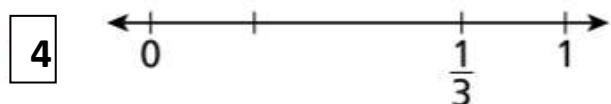

Liam buys a snack at a store that is $\frac{3}{8}$ mile from his home. What point on the number line shows the location of the store?

1   point A

2   point B

3   point C

4   point D

Your **fourth digit** in the combination is the number of the correct answer above. _____

Which number line shows the fraction $\frac{1}{3}$ plotted correctly?

1

2

3

4
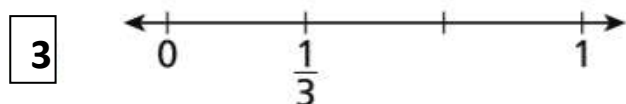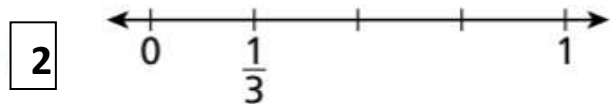
Your **second digit** in the combination is the number of the correct answer above. _____

Kay and Juanita each have a garden of the same size and shape.

- Kay grows flowers in $\frac{1}{6}$ of her garden.

- Juanita grows flowers in $\frac{1}{3}$ of her garden.

Which statement shows a correct comparison of the sections of flowers grown in Kay's garden and Juanita's garden?

A $\frac{1}{6} > \frac{1}{3}$

B $\frac{1}{6} < \frac{1}{3}$

C $\frac{1}{3} = \frac{1}{6}$

D $\frac{1}{3} + \frac{1}{6}$

Your **first digit** in the combination is the denominator of the second

fraction named in the answer above.   _____

Which two fractions should be plotted at the same location on a number line?

A $\frac{3}{4}$ and $\frac{4}{8}$

B $\frac{1}{4}$ and $\frac{2}{8}$

C $\frac{2}{4}$ and $\frac{4}{6}$

D $\frac{1}{2}$ and $\frac{2}{6}$

Your **third digit** in the combination is the fractional unit of the first fraction named in the answer above.

            _____

Congratulations! You managed to get ONE lock opened. You will need to really focus if you wish to get the last two opened. Are you up for the challenge?

The shape below is shaded to represent a fraction.
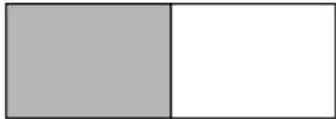
Which shape is shaded to represent a fraction equivalent to the shape shown above?

A

C

B

D

Your **second digit** in the combination is equal to the fractional unit of the shape chosen for the correct answer above.

_____

Which fraction is equivalent to 4?

A $\frac{1}{4}$ B $\frac{8}{4}$ C $\frac{4}{4}$ D $\frac{4}{1}$

Your **first digit** in the combination is equal to the ones digit indicated in the correct answer above.

_____

Jaime has a small container that holds exactly $\frac{1}{4}$ cup of dog food. How many times should Jaime fill the container and pour it into the dog's bowl to make sure the dog gets exactly $\frac{1}{2}$ cup of food?
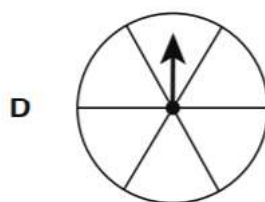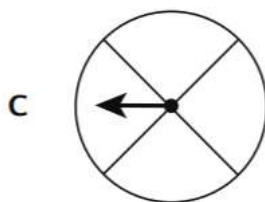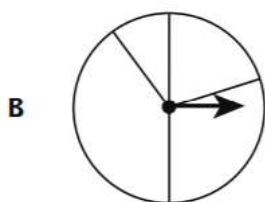
A $\frac{1}{4}$

B $\frac{1}{2}$

C 2

D 4

Your **fourth digit** in the combination can be found when you multiply the correct answer above by 4.

_____

The Diaz family used a spinner to play a game. The spinner was in the shape of a circle. Each section of the spinner was $\frac{1}{4}$ of the whole circle. Which picture shows a spinner that the Diaz family used?
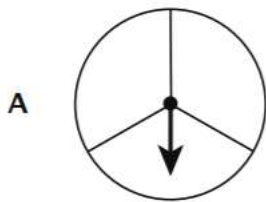
Your **third digit** in the combination is equal to the numerator in one-fourth.

_____

Congratulations! You have opened two-thirds of the locks.

But do you have what it will take to open the last one?

Put on your thinking caps!

Two teachers each buy pizzas for a party. All of the pizzas are the same size.

- Teacher A's pizzas were cut into 6 equal slices.

- Teacher B's pizzas were cut into 8 equal slices.

Which teacher's pizzas were cut into larger slices? Use what you know about fractions to explain your answer.

Answer

_____

_____

_____

Your **first two digits** in the combination are the fractional units from the fractions above in order from least to greatest. (Be sure to compare the fractional unit)

_____   _____

Gianna cuts a ribbon into equal pieces as shown below.

She uses 4 pieces of the ribbon for a project. What fraction of the ribbon does Gianna use for the project?

Explain how you found your answer.

_____

_____

_____

Your **third and fourth digits** in the combination are the denominator and then the numerator of the answer from the problem above. (Pay attention to the order.)

_____   _____