

## Fractions of a Foot

NCTM Standards 1, 2, 6, 7, 8, 9, 10

What fraction of each picture is shaded?  
What fraction is not shaded?

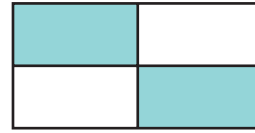
1



shaded      not shaded

2

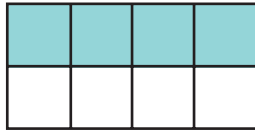

2



shaded      not shaded

4

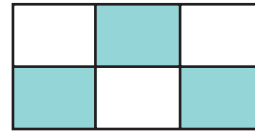

3



shaded      not shaded

8

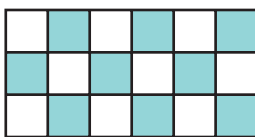

4



shaded      not shaded

3

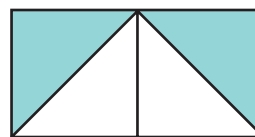

5



shaded      not shaded



6



shaded      not shaded



7 Record all of the fractions above, and complete the others so that they all represent one half.

1	2	3		10	9			
2	4		8			40	100	98

- 8 Nick is going to make some trail mix, but he's not sure how many batches he wants to make. Complete this table for him to use:

Number of Batches	1	$\frac{1}{2}$	2	3	4	$4\frac{1}{2}$
Granola	1 c	$\frac{1}{2}$ c	c	c	c	c
Dried Apricots	$\frac{1}{2}$ c	c	c	c	c	c
Sunflower Seeds	$\frac{2}{3}$ c	c	c	c	c	c
Raisins	$\frac{1}{4}$ c	c	c	c	c	c
Chocolate Chips	$\frac{1}{3}$ c	c	c	c	c	c

- 9 Nick decided to make just **one** batch of trail mix. Here is what he has in his kitchen:

Granola . . .  $\frac{9}{10}$  c      Dried apricots . . .  $\frac{8}{16}$  c      Sunflower seeds . . .  $\frac{4}{6}$  c  
 Raisins . . .  $\frac{7}{8}$  c      Chocolate chips . . .  $\frac{1}{5}$  c

Nick has enough \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_ to make one batch of trail mix. He needs to buy more \_\_\_\_\_ and \_\_\_\_\_ to make one batch of trail mix.



- 10 **Challenge** Nick decided to add **10** ounces of banana chips to each batch.

Number of Batches	1	$\frac{1}{2}$	2	4		$\frac{1}{10}$			$3\frac{1}{2}$
Ounces of Banana Chips	10				30		100	70	

How could you use this chart to figure out how many ounces of banana chips Nick should add to  $1\frac{1}{2}$  batches of trail mix?

\_\_\_\_\_

\_\_\_\_\_