Names (pair) _____ Date _____

Equal Parts of a Set

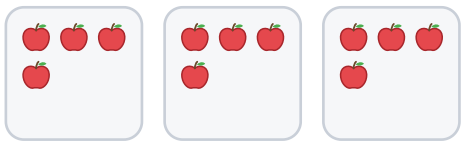
PART 1 Fair shares

1 IN PAIRS Take 12 counters and some plates. One student shares the counters onto the plates, the other checks that all the parts are equal. Swap roles after each row.



Plates	On each plate	Are they equal?	One plate is
2	☐	YES / NO	$\frac{1}{2}$ of 12 = ☐
3	☐	YES / NO	$\frac{1}{3}$ of 12 = ☐
4	☐	YES / NO	$\frac{1}{4}$ of 12 = ☐
6	☐	YES / NO	$\frac{1}{6}$ of 12 = ☐

2 ON YOUR OWN Is the set shared into equal parts? Circle. If it is, write what fraction of the set is on one plate.

a) 

YES / NO

$\frac{1}{\square}$ of 12 = ☐

b) 

YES / NO

$\frac{1}{\square}$ of 12 = ☐

c) 

YES / NO

$\frac{1}{\square}$ of 12 = ☐

d) 

YES / NO

$\frac{1}{\square}$ of 12 = ☐

Names (group) _____ Date _____

PART 2 One part of a set

Remember

When a set is shared into 3 equal parts, one part is $\frac{1}{3}$ of the set. The denominator tells us **how many equal parts** we share into, not how many objects are in each part.



$\frac{1}{3}$ of 12 = 4

3 ON YOUR OWN Open the app (mode **Fraction of a set**, objects: counters, apples or candies). Enter the set and the number of parts, press **Share ▶** and write the result.

$\frac{1}{2}$ of 10 = ☐ $\frac{1}{3}$ of 15 = ☐ $\frac{1}{4}$ of 20 = ☐ $\frac{1}{5}$ of 30 = ☐ $\frac{1}{6}$ of 24 = ☐

The Set of Objects app · otooly.com/set-of-objects

Press **Groups of 3?** with a set of 12. Compare: are groups of 3 the same as thirds? Why not?

4 IN A GROUP **Plates and cards.** The group gets a pile of objects and the cards. Roles: the *sharer* shares, the *checker* counts that all parts are equal, the *recorder* writes, the *reporter* checks in the app. Swap roles after each row.

Card	Parts	In one part	Written
$\frac{1}{3}$ of 18	☐	☐	$\frac{1}{3}$ of 18 = ☐
$\frac{1}{4}$ of 20	☐	☐	$\frac{1}{4}$ of 20 = ☐
$\frac{1}{6}$ of 24	☐	☐	$\frac{1}{6}$ of 24 = ☐
$\frac{1}{5}$ of 30	☐	☐	$\frac{1}{5}$ of 30 = ☐

5 ON YOUR OWN **Exit card.** Draw 8 circles and colour $\frac{1}{4}$ of the set.