

2-9

1. Draw bar models to determine if the two ratios are proportional.
 - a. In one box of cookies, the ratio of chocolate chip cookies to oatmeal cookies is 3 to 8. A bigger box of cookies has a ratio of 12 to 32 chocolate chip to oatmeal cookies.
 - b. The ratio of cats to total pets in the first pet store is 3 to 9. In the second pet store the ratio of cats to total pets is 6 to 18.
2. The ratio of pink flowers to purple flowers in a vase is 6:8. The ratio of pink flowers to purple flowers in a different vase is 8:10.
3. Now reduce the fractions in the problems above. What do you observe?

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4. Determine if each set of ratios below is proportional by reducing them to simplest form.

a. $\frac{7}{9}$	$\frac{21}{27}$	d. $\frac{10}{12}$	$\frac{15}{30}$	g. $\frac{1}{3}$	$\frac{3}{16}$
b. $\frac{2}{3}$	$\frac{3}{8}$	e. $\frac{9}{12}$	$\frac{49}{50}$	h. $\frac{7}{10}$	$\frac{28}{40}$
c. $\frac{15}{35}$	$\frac{24}{52}$	f. $\frac{4}{16}$	$\frac{2}{8}$	i. $\frac{6}{15}$	$\frac{8}{4}$

Challenge: Can you think of other ways to determine proportionality?