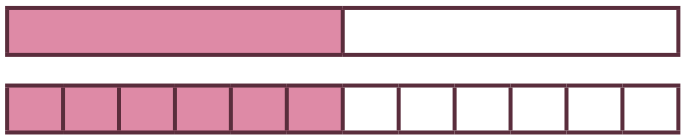
Name _____

Equivalent Fractions 10.6

A scientist recorded that one-half the wallabies in an Australian animal park had joeys, which are baby wallabies. If there were 12 wallabies, how many of them had joeys?

$$\frac{1}{2} = \frac{?}{12}$$

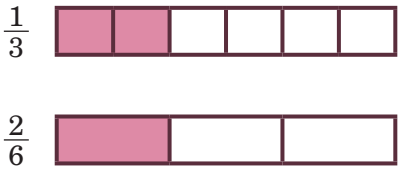


$$\frac{1}{2} = \frac{6}{12}$$

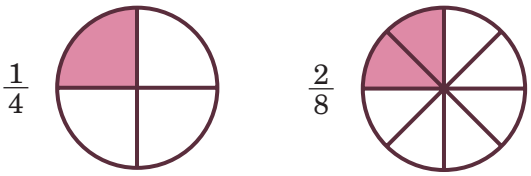
Six of the wallabies have joeys.

Since $\frac{1}{2}$ and $\frac{6}{12}$ are the same amount, then $\frac{1}{2} = \frac{6}{12}$. They are equivalent fractions.

Use models to identify equivalent fractions.



$$\frac{1}{3} = \frac{2}{6}$$



$$\frac{1}{4} = \frac{2}{8}$$

1. Use multiplication and division to find equivalent fractions. Shade in the fraction strips to check the answer.

Step 1—Divide.

$$\frac{2}{5} = \frac{?}{10}$$

÷

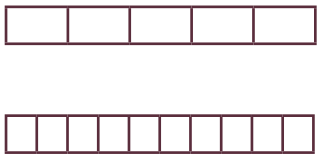
Step 2—Multiply. Multiply that quotient by the numerator.

×

$$\frac{2}{5} = \frac{?}{10}$$

$$\frac{2}{5} = \frac{?}{10}$$

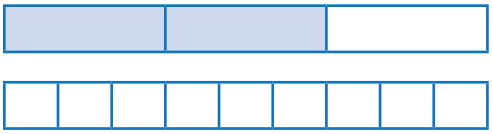
$$\frac{2}{5} = \frac{\square}{10}$$



10 ÷ 5 = _____

2 × 2 = _____

2. Divide the ninths into 3 equal groups. Shade 2 of those groups. Fill in the blanks.



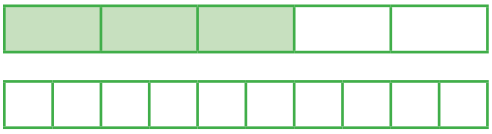
$\frac{2}{3} = \frac{?}{9}$

$\frac{2}{3} = \frac{\square}{9}$

$9 \div 3 =$ _____

$2 \times$ _____ $=$ _____

3. Divide the tenths into 5 equal groups. Shade 3 of those groups. Fill in the blanks.



$\frac{3}{5} = \frac{?}{10}$

$\frac{3}{5} = \frac{\square}{10}$

$10 \div 5 =$ _____

$3 \times$ _____ $=$ _____

Find the equivalent fraction.

4. $1 \times 3 = 3$

$\frac{1}{3} = \frac{3}{9}$

$9 \div 3 = 3$

6. $\frac{3}{8} = \frac{\square}{16}$

8. $\frac{6}{10} = \frac{\square}{20}$

10. $\frac{4}{5} = \frac{\square}{10}$

11. $\frac{2}{6} = \frac{\square}{12}$

5. $1 \times 4 = 4$

$\frac{1}{2} = \frac{\square}{8}$

$8 \div 2 = 4$

7. $\frac{2}{7} = \frac{\square}{21}$

9. $\frac{1}{9} = \frac{\square}{18}$

Complete the fractions. Solve.

12. One-third of the third graders wear glasses. If there are 15 students in the class, how many of them wear glasses?

___ $=$ ___

_____