REVIEW: Equivalent Fractions

Name _____

Key Concept and Vocabulary

$$\frac{2}{3} = \frac{2 \cdot 4}{3 \cdot 4} = \frac{8}{12}$$

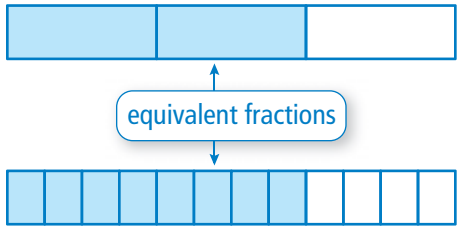
Multiply numerator and denominator by the same number.

Visual Model

$\frac{2}{3}$

equivalent fractions

$\frac{8}{12}$



Skill Examples

1. $\frac{1}{2} = \frac{1 \cdot 2}{2 \cdot 2} = \frac{2}{4}$
2. $\frac{1}{2} = \frac{1 \cdot 3}{2 \cdot 3} = \frac{3}{6}$

$\frac{1}{2}$, $\frac{2}{4}$, and $\frac{3}{6}$ are all equivalent.

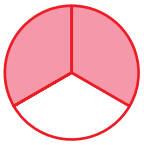
3. $\frac{3}{4} = \frac{3 \cdot 5}{4 \cdot 5} = \frac{15}{20}$
4. $\frac{4}{5} = \frac{4 \cdot 20}{5 \cdot 20} = \frac{80}{100}$

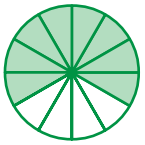
Application Example

5. You eat two-thirds of a pizza that has 12 pieces. How many pieces do you eat?

$$\frac{2}{3} = \frac{2 \cdot 4}{3 \cdot 4} = \frac{8}{12}$$

∴ You eat 8 pieces.





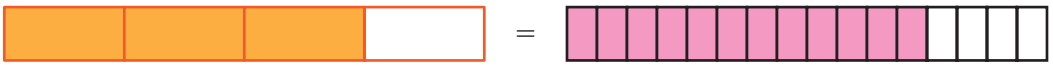
PRACTICE MAKES *PURR*-FECT™

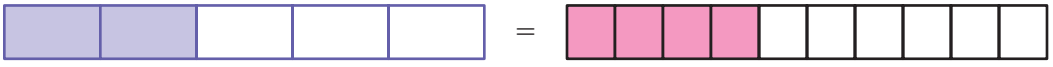
Check your answers at BigIdeasMath.com.

Write a fraction that is equivalent to the given fraction.

6. $\frac{1}{2} = \frac{\boxed{2}}{4}$
7. $\frac{3}{5} = \frac{\boxed{9}}{15}$
8. $\frac{4}{3} = \frac{\boxed{12}}{9}$
9. $\frac{1}{3} = \frac{\boxed{9}}{27}$
10. $\frac{2}{5} = \frac{\boxed{8}}{20}$
11. $\frac{7}{8} = \frac{\boxed{56}}{64}$
12. $\frac{3}{7} = \frac{6}{\boxed{14}}$
13. $\frac{9}{4} = \frac{36}{\boxed{16}}$
14. $\frac{1}{5} = \frac{10}{\boxed{50}}$
15. $\frac{3}{9} = \frac{12}{\boxed{36}}$
16. $\frac{7}{10} = \frac{14}{\boxed{20}}$
17. $\frac{3}{8} = \frac{9}{\boxed{24}}$

Shade the model so that the fraction is equivalent.

18. 

19. 

20. **PIZZA** You eat three-fourths of a pizza that has 12 pieces. How many pieces do you eat? 9 pieces

21. **SURVEY** A survey asked 240 people if they liked the movie "Star Wars." One-third liked it, one-sixth did not like it, and one-half had not seen it. How many people are in each of the three categories? liked: 80, did not like: 40, had not seen: 120