

حل أوراق عمل الدرس الثاني Models Using Fractions Equivalent Generate من الوحدة الثامنة منهج ريفيل



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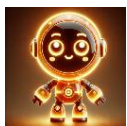
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المزيد من مادة رياضيات:

إعداد: Ibrahim Mohamed

التواصل الاجتماعي بحسب الصف الرابع



صفحة المناهج الإماراتية على فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

المزيد من الملفات بحسب الصف الرابع والمادة رياضيات في الفصل الثاني

أوراق عمل الدرس الثاني Models Using Fractions Equivalent Generate من الوحدة الثامنة منهج ريفيل

1

حل أوراق عمل الدرس الأول Fractions Equivalent من الوحدة الثامنة منهج ريفيل

2

أوراق عمل الدرس الأول Fractions Equivalent من الوحدة الثامنة منهج ريفيل

3

حل أوراق عمل الدرس السابع Remainder a of Sense Make من الوحدة السابعة منهج ريفيل

4

أوراق عمل الدرس السابع Remainder a of Sense Make من الوحدة السابعة منهج ريفيل

5

Unit 8 – L 2

Lesson 8-2 Generate Equivalent Fractions Using Models

Mr Mohamed Ibrahim



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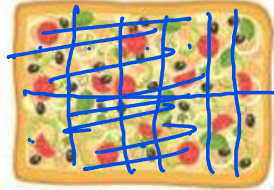
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أستاذ الرياضيات / محمد إبراهيم

Learn

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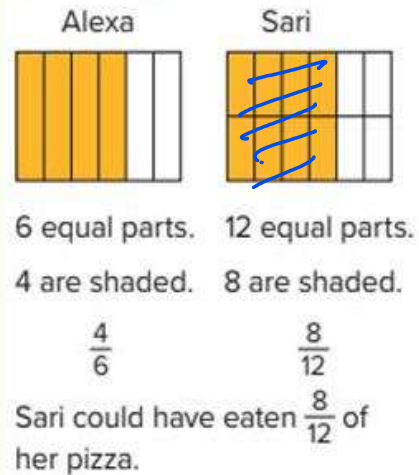
Alexa and Sari got pizzas that are the same size.
Alexa cut her pizza into 6 equal-sized pieces and ate $\frac{4}{6}$ of her pizza. Sari ate the same amount of her pizza, but cut her pizza into smaller equal-sized pieces.



What fraction of her pizza could Sara have eaten?

You can find fractions that are equivalent to $\frac{4}{6}$.

► **One Way** Use fraction models.



► **Another Way** Rewrite $\frac{4}{6}$ with a different denominator.

To generate an equivalent fraction, multiply the numerator and denominator by a fraction equal to 1.

$$\frac{4 \times 2}{6 \times 2} = \frac{8}{12}$$

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

$$\frac{4 \times 3}{6 \times 3} = \frac{12}{18}$$

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

Sari could have eaten $\frac{12}{18}$ of her pizza.

$$\frac{4}{6} \rightarrow \frac{4 \times 2}{6 \times 2} = \frac{8}{12}$$

$$\frac{4 \times 3}{6 \times 3} = \frac{12}{18}$$

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

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What fraction is missing from the pattern? Explain how you can find the equivalent fraction.

$$\frac{3}{4} = \frac{6}{8} = \frac{?}{?} = \frac{12}{16}$$

$$\frac{3}{4} \xrightarrow{\times 2} \frac{6}{8}$$

$$\frac{3}{4} \xrightarrow{\times 4} \frac{12}{16}$$

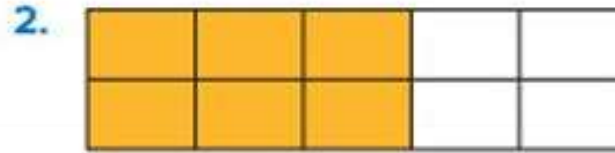
$$\frac{3 \times 3}{4 \times 3} = \frac{9}{12}$$



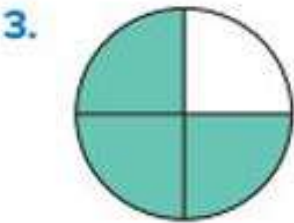
Use the representation to find an equivalent fraction.



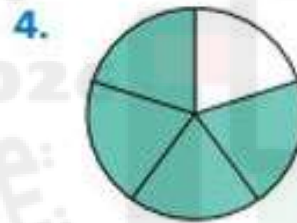
$$\begin{array}{l} 2 \times \frac{2}{3} = \frac{\boxed{4}}{\boxed{6}} \end{array}$$



$$\begin{array}{l} 2 \times \frac{3}{6} = \frac{\boxed{12}}{\boxed{20}} \end{array}$$



$$\begin{array}{l} 3 \times \frac{3}{4} = \frac{\boxed{9}}{\boxed{12}} \end{array}$$



$$\begin{array}{l} 2 \times \frac{4}{5} = \frac{\boxed{8}}{\boxed{10}} \end{array}$$



Find the missing number in the equivalent fraction.
Explain how you determined the number.

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5. $\frac{1}{5} = \frac{2}{\boxed{10}}$

Handwritten notes: $\times 2$ (above the fraction bar), $\times 2$ (below the fraction bar).

Handwritten notes: $\times 25$ (above the fraction bar), $\times 25$ (below the fraction bar).

6. $\frac{3}{4} = \frac{75}{\boxed{100}}$

Handwritten notes: $\times 25$ (above the fraction bar), $\times 25$ (below the fraction bar).

Handwritten notes: 75 (above the fraction bar), 60 (below the fraction bar), 15 (below the fraction bar), 3×20 (to the right of the fraction bar), 3×5 (below the fraction bar).

7. $\frac{14}{12} = \frac{\boxed{7}}{6}$

Handwritten notes: $\div 2$ (above the fraction bar), $\div 2$ (below the fraction bar).

Handwritten notes: $\times 3$ (above the fraction bar), $\times 3$ (below the fraction bar).

8. $\frac{12}{9} = \frac{\boxed{4}}{3}$

Handwritten notes: $\div 3$ (above the fraction bar), $\div 3$ (below the fraction bar).



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9. Sanjay bought a half gallon of green tea. He pours all the tea into 4 glasses so that each glass has the same amount. How much of a gallon is in each glass? Explain your thinking.

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

Handwritten notes: x4 under the denominator 2, and x8 under the denominator 8.

$$\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$$

Handwritten note: each glass $\frac{1}{8}$

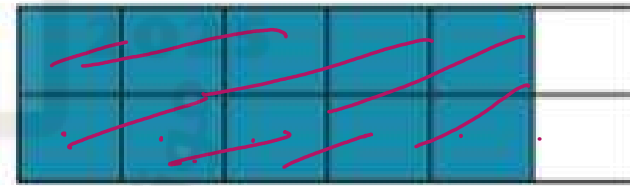
$$\boxed{\frac{1}{2}} \leftarrow \text{half}$$

10. Name two fractions that are represented by the model. Explain your reasoning.

$$\frac{10}{12} = \frac{5}{6}$$

Handwritten notes: ÷2 over the numerator 10 and denominator 12.

$$\frac{10}{12} = \frac{20}{24}$$



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- 11. Error Analysis** Theo says $\frac{2}{4}$ and $\frac{4}{6}$ are equivalent fractions. How would you respond to Theo?

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

$$2 \times 2 = 4 \quad \checkmark$$

$$4 \times 2 = 8$$

$$6 \neq 8$$

not equivalent

- 12. Extend Your Thinking** Are the fractions $\frac{6}{4}$ and $\frac{9}{6}$ equivalent? Explain your reasoning.

↓
yes

$$\frac{6}{4} \text{ and } \frac{9}{6}$$

$$\begin{array}{l} \text{As } 6 \times 1.5 = 9 \\ 4 \times 1.5 = 6 \end{array}$$



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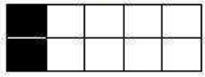
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Lesson 8-2

Exit Ticket

Name _____

1. Use the representation to find an equivalent fraction.



$$\frac{2}{10} = \frac{\boxed{}}{\boxed{}}$$

2. Remy says
- $\frac{10}{12}$
- and
- $\frac{5}{6}$
- are equivalent fractions. How would you respond to him?



- A. The denominator of $\frac{5}{6}$ is not the same as the denominator of $\frac{10}{12}$.
- B. The numerator and denominator of $\frac{5}{6}$ are half as much as the numerator and denominator of $\frac{10}{12}$.
- C. The numerator of $\frac{5}{6}$ is 5 more than the numerator of $\frac{10}{12}$ and the denominator of $\frac{5}{6}$ is 6 more than the denominator of $\frac{10}{12}$.
- D. The numerator and denominator of $\frac{5}{6}$ are twice as much as the numerator and denominator of $\frac{10}{12}$.

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