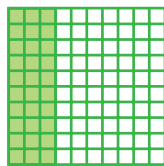


Homework & Practice 12-1

Fractions and Decimals

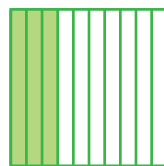
Another Look!

How can you represent a number as a fraction or a decimal?



30 parts out of 100 is 0.30.

$$\frac{30}{100} = 0.30$$



3 parts out of 10 is 0.3.

$$\frac{3}{10} = 0.3$$

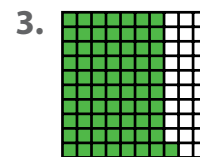
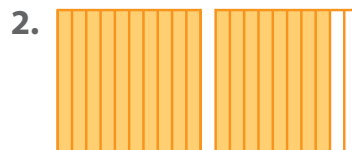
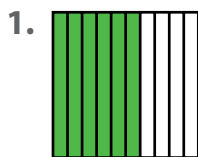


You can use grids to help write fractions and decimals.

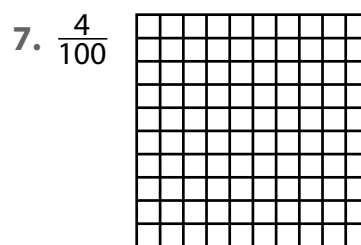
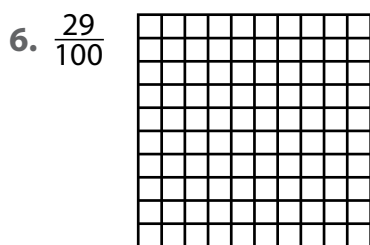
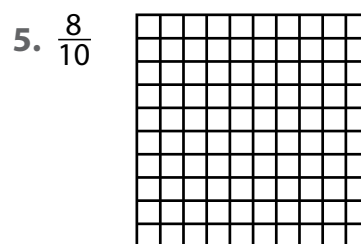
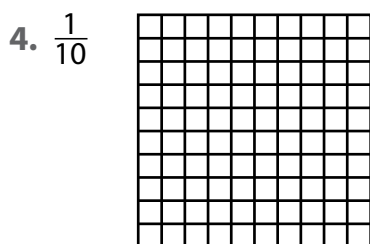
So, $\frac{30}{100} = \frac{3}{10}$ and $0.30 = 0.3$.

These decimals and fractions are equivalent.

For 1–3, write a decimal and fraction for each grid.



For 4–7, shade the grid for each fraction and write the decimal.



8. On Tuesday, Pierce ran $\frac{3}{4}$ mile and walked $\frac{3}{4}$ mile. On Wednesday, he ran $\frac{2}{4}$ mile and walked $1\frac{1}{4}$ miles. How much farther did Pierce run and walk on Wednesday than on Tuesday? Explain.

9. © **MP.3 Critique Reasoning** Monique said, "0.70 is greater than 0.7 because 70 is greater than 7." Do you agree with Monique? Why or why not?

10. Jaclynn had 84 cents. Her brother gave her another 61 cents. Write the amount of money Jaclynn now has as a decimal. Explain.

11. **Higher Order Thinking** Hugh uses 0.63 of a piece of canvas to paint a picture. Draw a model to represent this decimal. How much of the canvas is left?

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12. Look at the floor plan below. Which fraction and decimal describe the part of the grocery store that is used for food?



■ Food ■ Kitchenware
■ Toiletries ■ Pharmacy

- (A) $\frac{7}{100}$; 0.07
- (B) $\frac{1}{10}$; 0.1
- (C) $\frac{73}{100}$; 0.73
- (D) $\frac{73}{10}$; 7.3



Use the key for the floor plan to find the part of the store that is used for food.

13. Which grid represents 0.85?

