



SKILL 17: Writing Equivalent Fractions and Decimals

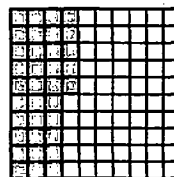
You can use a fraction or a decimal to express the same number.

Example 1

Write a fraction for 0.35. Express your answer in simplest form.

number of shaded squares $\rightarrow \frac{35}{100}$
total number of squares $\rightarrow \frac{100}{100}$

$$\frac{35}{100} = \frac{35 \div 5}{100 \div 5} = \frac{7}{20} \quad 0.35 = \frac{35}{100} = \frac{7}{20}$$



Example 2

Write a decimal for $\frac{3}{5}$.

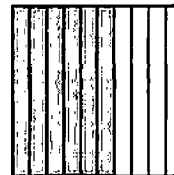
You will need to change $\frac{3}{5}$ to an equivalent fraction with 10 or 100 as the denominator.

$$\frac{3}{5} = \frac{3 \times 2}{5 \times 2} = \frac{6}{10}$$

The picture at the right shows tenths.
6 tenths are shaded.

The decimal for the picture is 0.6.

$$\frac{3}{5} = \frac{6}{10} = 0.6$$



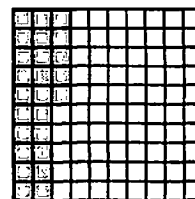
Guided Practice

1. Write a fraction for 0.25 in simplest form.

a. Write a fraction showing hundredths. _____

b. Write the fraction in simplest form. _____

c. $0.25 =$ _____

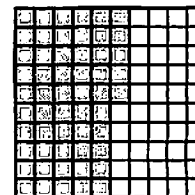


2. Write a decimal for $\frac{11}{20}$.

a. Write the fraction with a denominator of 100. _____

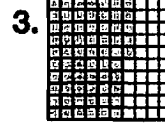
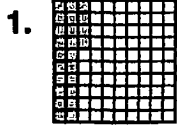
b. Write your answer as a decimal. _____

c. $\frac{11}{20} =$ _____



SKILL 17: Practice

Write a decimal and a fraction in simplest form for each picture.



Write a fraction in simplest form for each decimal.

4. 0.34 _____

5. 0.9 _____

6. 0.64 _____

7. 0.12 _____

8. 0.72 _____

9. 0.65 _____

10. 0.4 _____

11. 0.27 _____

12. 0.32 _____

Write a decimal for each fraction.

13. $\frac{2}{5}$ _____

14. $\frac{1}{2}$ _____

15. $\frac{9}{20}$ _____

16. $\frac{12}{25}$ _____

17. $\frac{3}{4}$ _____

18. $\frac{42}{50}$ _____

19. $\frac{11}{20}$ _____

20. $\frac{7}{25}$ _____

21. $\frac{16}{25}$ _____

Solve.

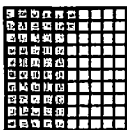
22. A thumb tack is about 0.85 cm long. Write the length of the thumbtack as a fraction in simplest form. _____

23. Jason has a drill bit that is $\frac{21}{25}$ cm in diameter. Write the diameter of the drill bit as a decimal. _____

24. Tonya's caulking gun handle is 0.98 ft long. Write the length of the handle as a fraction in simplest form. _____



25. What decimal is shown?



Skill 17

A 0.52

C 0.13

B 0.25

D 1.3

26. Which set of fractions is in order from least to greatest?

Skill 16

F $\frac{2}{3}, \frac{3}{5}, \frac{7}{10}$

H $\frac{2}{5}, \frac{3}{7}, \frac{1}{2}$

G $\frac{8}{9}, \frac{2}{3}, \frac{1}{6}$

J $\frac{5}{8}, \frac{1}{4}, \frac{3}{7}$