

Decimals as fractions

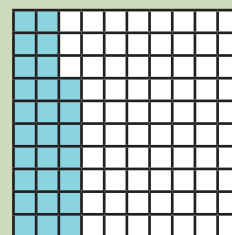
Read and write decimal numbers as fractions



Challenge

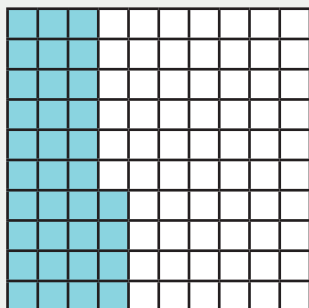
Look at each grid. Write the decimal number and the fraction of the shaded area.

Example

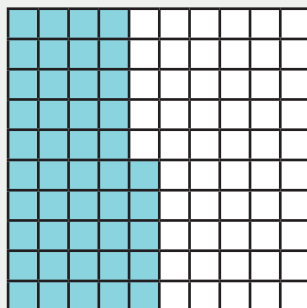


$$0.27 = \frac{27}{100}$$

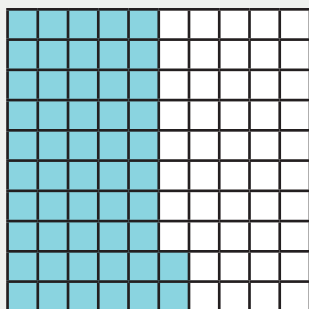
a



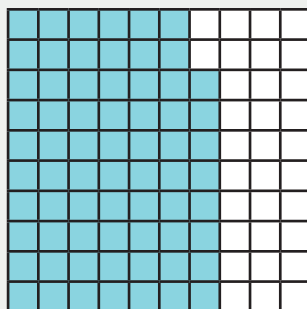
b



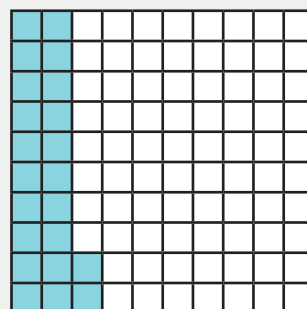
c



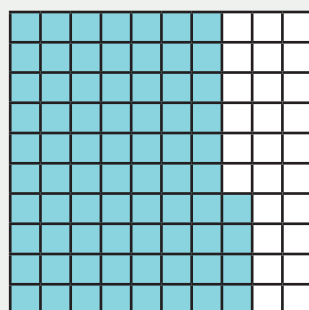
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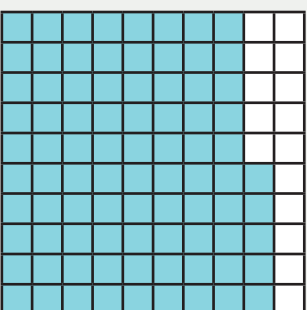
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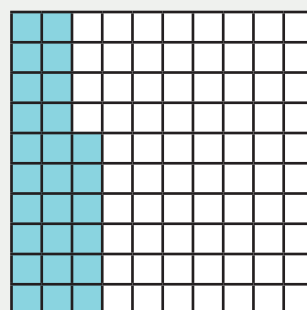
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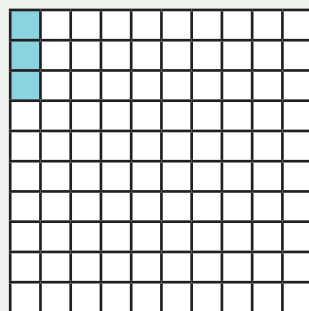
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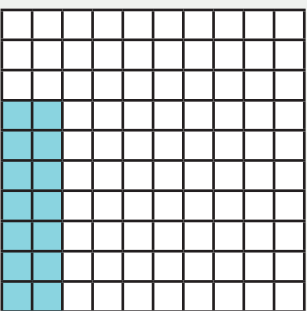
h



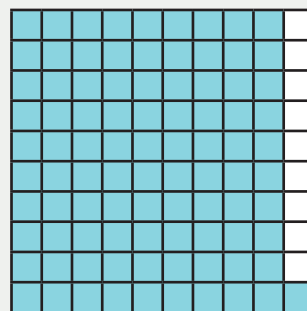
i



j



k



Challenge
2

1 Write each of these decimal numbers as a fraction.

- a 0.6 b 0.52 c 0.11 d 0.9 e 0.83
- f 0.04 g 0.27 h 0.1 i 0.01 j 0.99

2 Write each of these decimal numbers as a mixed number.

Example
 $6.35 = 6\frac{35}{100}$

- a 4.1 b 3.98 c 6.26 d 6.9 e 7.41
- f 8.06 g 9.18 h 12.6 i 13.36 j 17.93

3 How are fractions and decimal numbers related?

Challenge
3

1 Write each of these decimal numbers as a mixed number and then as an improper fraction.

Example
 $3.72 = 3\frac{72}{100} = \frac{372}{100}$

- a 6.46 b 7.38 c 5.7 d 9.12 e 4.08
- f 6.37 g 3.5 h 6.62 i 8.40 j 9.90

2 Are the decimal numbers in Questions 1 i and 1 j tenths or hundredths? Explain why.

