

Representing Tenths and Hundredths as Decimals

How can you write a decimal fraction and a decimal for the same part of a whole?

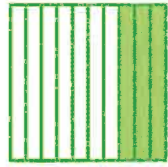
Amy has a set of ten markers. Three of the markers are green. What part of the set of markers is green?



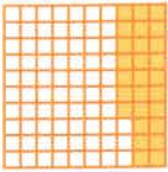
Tenths are ten equal parts of a whole or a set.

A decimal point is a dot used to separate ones from tenths in a number.

A decimal is a number with one or more digits to the right of the decimal point. Tenths can be written as a fraction or a decimal.



Three tenths of the set of markers is green. Three tenths can be written as $\frac{3}{10}$ or 0.3.



Hundredths are one hundred equal parts of a whole or a set.

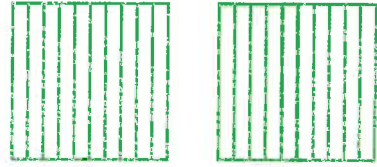
A tiled wall is made up of 100 tiles that are the same size and shape. Joel painted 27 of the tiles orange. What part of the whole wall did he paint orange?

Joel painted $\frac{27}{100}$ or 0.27 of the wall.

Guided Practice

Colour these numbers on the grids.

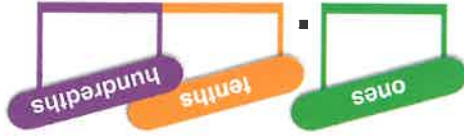
1 1.7



3 1.2



5 9.01



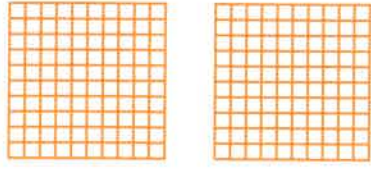
6 6.40



4 7.39



2 35



Place these numbers on a place-value chart.

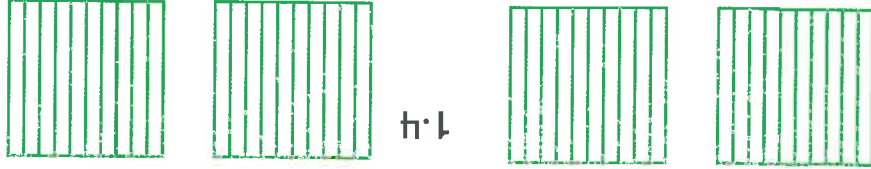
Reasoning

7 Explain why we need the '0' in 3.07.

Independent Practice

Shade each decimal number onto the grids to make each statement true.

8 1.8 is larger than 1.4



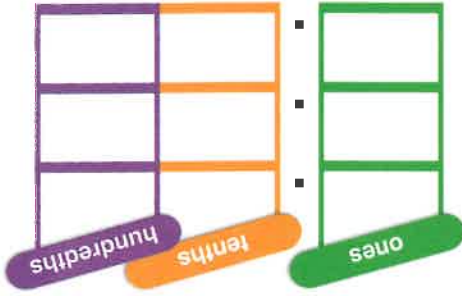
Problem Solving



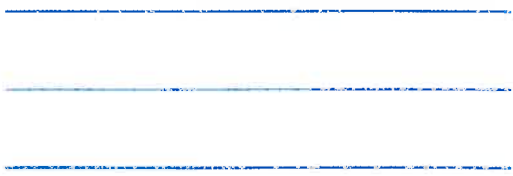
13a Make a list of when we use decimals.

b Why do we need decimal numbers?

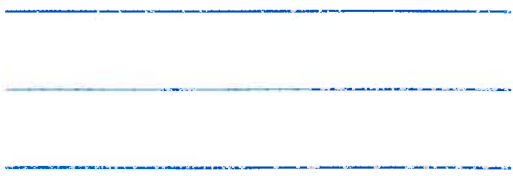
12 4.03



11 3.74

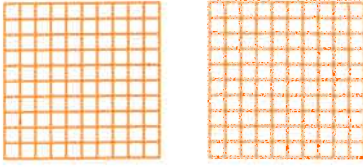


10 1.3



Use the place-value chart to help find the value of the '3' in these numbers.

1.60



9 1.60 is larger than 1.37

1.37

