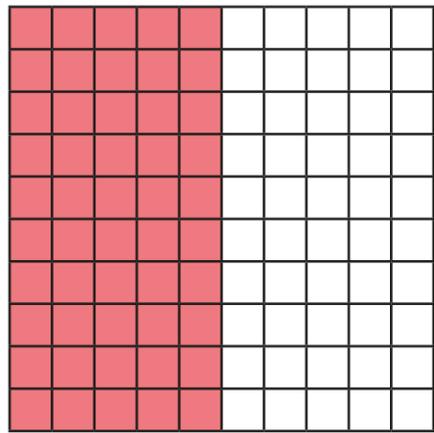# Halves and quarters

1 Half of the hundred square is shaded.

a) How many hundredths are shaded?
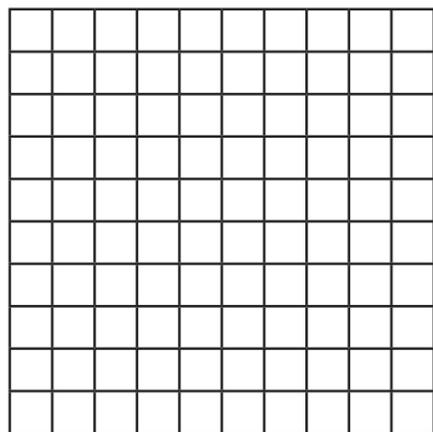
b) How many tenths are shaded?

c) Complete the equivalent fractions.

$\frac{1}{2} = \frac{\square}{100}$ $\frac{1}{2} = \frac{\square}{10}$

d) Write $\frac{1}{2}$ as a decimal.

2 Here is a blank hundred square.

a) Shade $\frac{1}{4}$

b) How many hundredths are shaded?

c) Complete the equivalent fraction.

$\frac{1}{4} = \frac{\square}{100}$

d) Write $\frac{1}{4}$ as a decimal.

3 Here is a blank hundred square.

a) Shade $\frac{3}{4}$
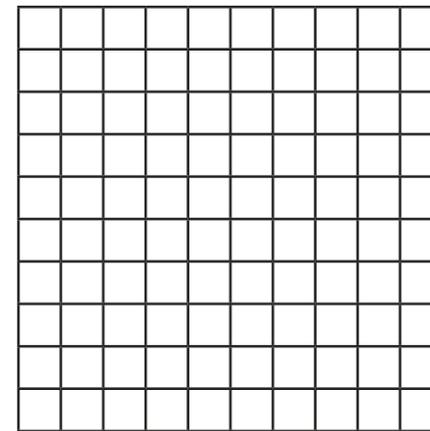
b) How many hundredths are shaded?

c) Complete the equivalent fraction.

$\frac{3}{4} = \frac{\square}{100}$
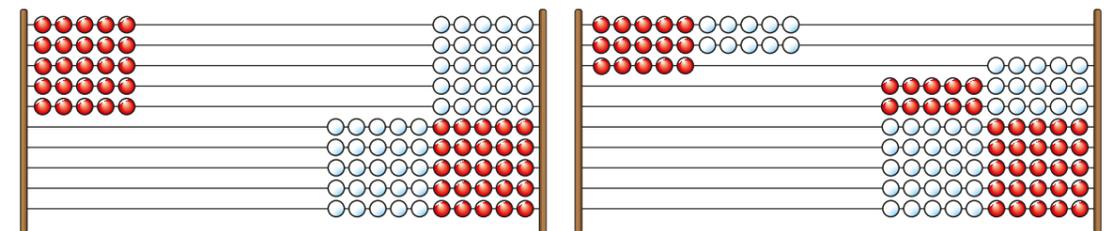
d) Write $\frac{3}{4}$ as a decimal.

4 I don't need to shade a hundred square to write $\frac{3}{4}$ as a decimal because I already know what $\frac{1}{2}$ and $\frac{1}{4}$ are as decimals.
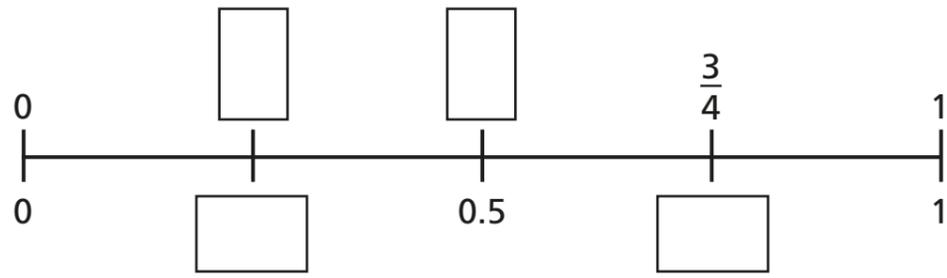
How does this help Annie?

5

Both Rekenreks represent one quarter.

Is the statement true or false? _____

Talk about it with a partner.

6 Fill in the missing fractions and decimals on the number line.

0 [ ] [ ] $\frac{3}{4}$ 1

0 [ ] 0.5 [ ] 1

7 Complete the equivalent fractions and decimals.

a) $\frac{25}{100} = $ [ ]

b) $\frac{75}{100} = $ [ ]

c) $\frac{1}{4} = $ [ ]

d) $\frac{3}{4} = $ [ ]

e) $\frac{25}{100} = \frac{\boxed{}}{4}$

f) $\frac{\boxed{}}{4} = \frac{75}{100}$

g) [ ] $= \frac{1}{2}$

h) $\frac{50}{100} = \frac{\boxed{}}{2}$

8

$0.5 + 0.5 = 1$

This bar model shows that $\frac{1}{2}$ is equivalent to 0.5

| 0.5 | 0.5 |

Draw a bar model to show that $\frac{1}{4}$ is equivalent to 0.25

9 Use your knowledge of equivalent fractions to convert between fractions and decimals.

a) $\frac{2}{4} = $ [ ]

b) $\frac{5}{20} = $ [ ]

c) [ ] $= \frac{21}{28}$

d) $0.25 = \frac{\boxed{}}{24}$

e) $\frac{\boxed{}}{68} = 0.5$

f) $0.75 = \frac{\boxed{}}{400}$