

Varied Fluency

Step 6: Halves and Quarters

National Curriculum Objectives:

Mathematics Year 4: (4F6a) [Recognise and write decimal equivalents to \$\frac{1}{4}\$, \$\frac{1}{2}\$, \$\frac{3}{4}\$](#)

Differentiation:

Developing Questions to support writing half, quarter and three quarters as decimals.

Expected Questions to support writing fractions equivalent to half, quarter and three quarters as decimals.

Greater Depth Questions to support writing fractions equivalent to half, quarter and three quarters as decimals. Multiple answers possible.

More [Year 4 Decimals](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Halves and Quarters

Halves and Quarters

1a. Circle the fraction that equals the decimal.

0.5

$$\frac{1}{4}$$

$$\frac{1}{2}$$



VF

1b. Circle the fraction that equals the decimal.

0.25

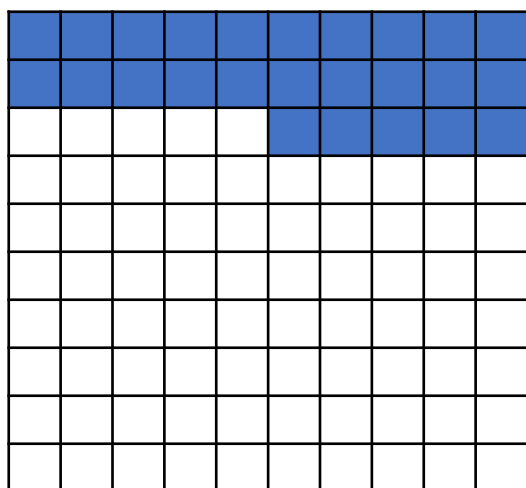
$$\frac{3}{4}$$

$$\frac{1}{4}$$



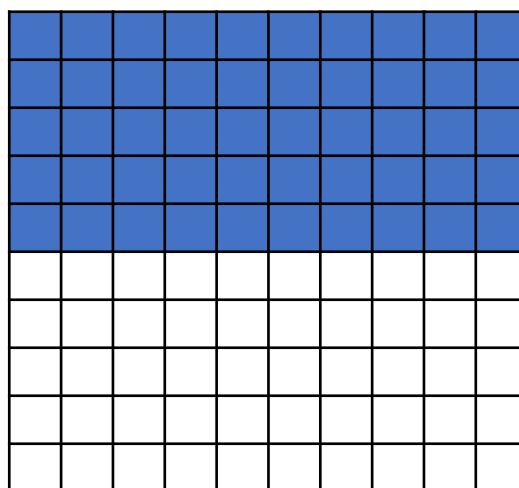
VF

2a. Write a decimal to show how many squares are shaded.



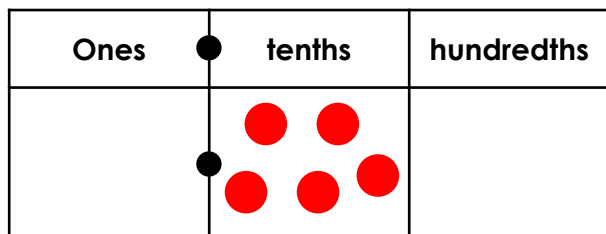
VF

2b. Write a decimal to show how many squares are shaded.



VF

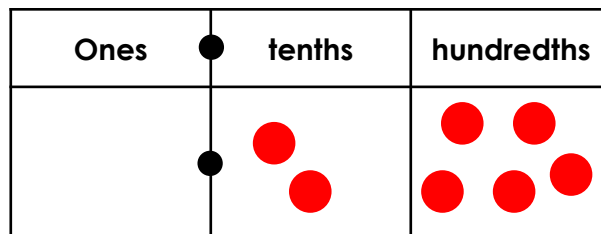
3a. Which decimal is shown on the place value grid?



Write an equivalent fraction.

VF

3b. Which decimal is shown on the place value grid?



Write an equivalent fraction.

VF

4a. Fill in <, > or = to make the statement true.

$$\frac{1}{4}$$

0.75



VF

4b. Fill in <, > or = to make the statement true.

0.5

$$\frac{1}{2}$$



VF

Halves and Quarters

Halves and Quarters

5a. Circle the fraction that equals the decimal.

$$\frac{2}{8}$$

0.25

$$\frac{2}{4}$$

$$\frac{3}{6}$$



VF

5b. Circle the fraction that equals the decimal.

$$\frac{4}{8}$$

0.75

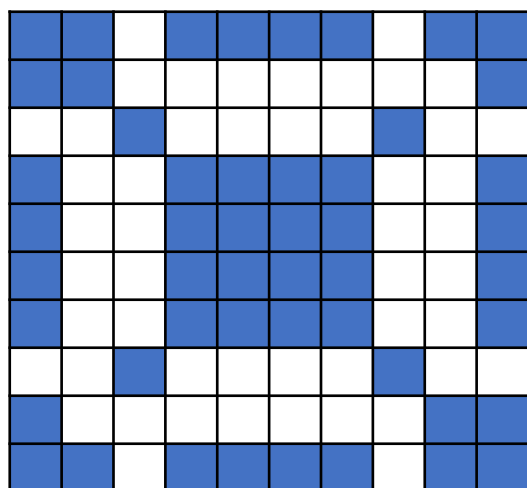
$$\frac{3}{12}$$

$$\frac{9}{12}$$



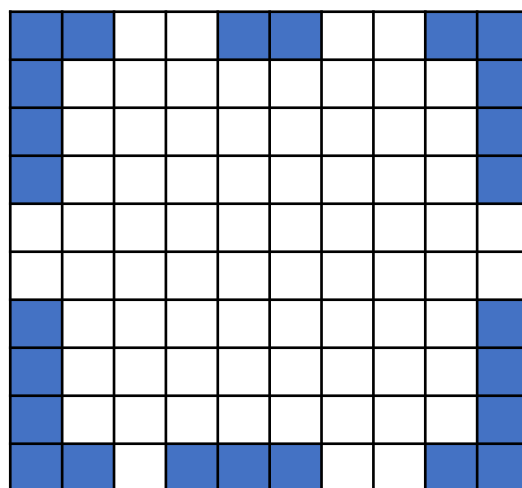
VF

6a. Write a fraction and decimal to show how many squares are shaded.



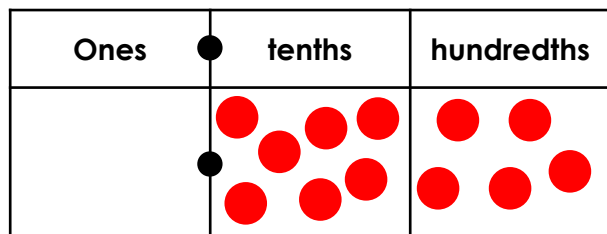
VF

6b. Write a fraction and decimal to show how many squares are shaded.



VF

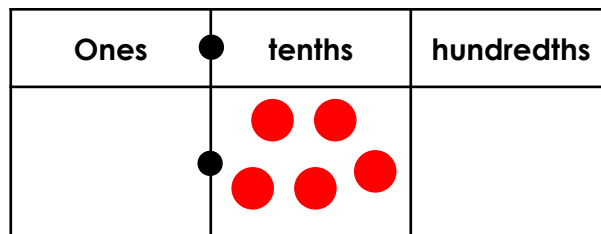
7a. Which decimal is shown on the place value grid?



Write two equivalent fractions.

VF

7b. Which decimal is shown on the place value grid?



Write two equivalent fractions.

VF

8a. Fill in <, > or = to make the statement true.

$$\frac{5}{10}$$

0.25



VF

8b. Fill in <, > or = to make the statement true.

0.75

$$\frac{6}{8}$$



VF

Halves and Quarters

9a. Circle the two fractions that equal the decimal.

0.25

$$\frac{6}{24} \quad \frac{9}{12}$$

$$\frac{15}{30} \quad \frac{4}{16}$$



VF

Halves and Quarters

9b. Circle the two fractions that equal the decimal.

0.75

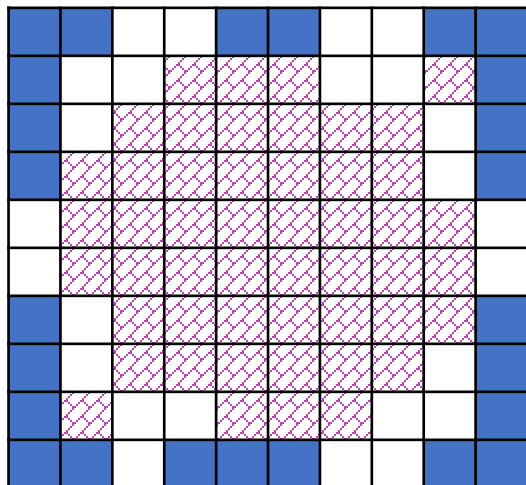
$$\frac{12}{24} \quad \frac{12}{16}$$

$$\frac{16}{32} \quad \frac{18}{24}$$



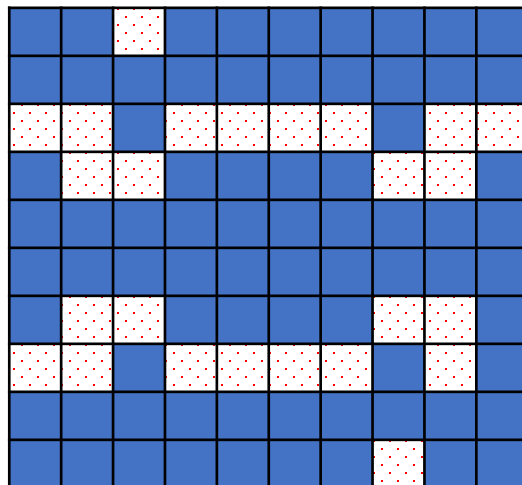
VF

10a. Write a fraction and decimal for each pattern to show how many shaded and patterned squares there are.



VF

10b. Write a fraction and decimal for each pattern to show how many shaded and spotty squares there are.



VF

11a. Show one half by drawing place value counters on the grid.

Ones	tenths	hundredths



Write two equivalent fractions.

VF

11b. Show three quarters by drawing place value counters on the grid.

Ones	tenths	hundredths



Write two equivalent fractions.

VF

12a. Fill in $<$, $>$ or $=$ to make the statement true.

$$\frac{12}{48} \quad \boxed{} \quad 0.25 \quad \boxed{} \quad \frac{18}{36}$$



VF

12b. Fill in $<$, $>$ or $=$ to make the statement true.

$$\frac{24}{32} \quad \boxed{} \quad \frac{28}{56} \quad \boxed{} \quad 0.75$$



VF

Varied Fluency Halves and Quarters

Developing

1a. $\frac{1}{2}$

2a. 0.25

3a. 0.5

4a. <

Expected

5a. $\frac{2}{8}$

6a. 0.5 and $\frac{50}{100}$ or $\frac{1}{2}$

7a. 0.75 and $\frac{75}{100}$ and $\frac{3}{4}$

8a. >

Greater Depth

9a. $\frac{6}{24}$ and $\frac{4}{16}$

10a. Shaded = 0.25 and $\frac{25}{100}$ or $\frac{1}{4}$

Patterned = 0.5 and $\frac{50}{100}$ or $\frac{1}{2}$

11a. 5 counters drawn in the tenths column: $\frac{50}{100}$; $\frac{2}{4}$; $\frac{4}{8}$; $\frac{6}{12}$

12a. =, <

Varied Fluency Halves and Quarters

Developing

1b. $\frac{1}{4}$

2b. 0.5

3b. 0.25

4b. =

Expected

5b. $\frac{9}{12}$

6b. 0.25 and $\frac{25}{100}$ or $\frac{1}{4}$

7b. 0.5 and $\frac{50}{100}$ and $\frac{1}{2}$

8b. =

Greater Depth

9b. $\frac{12}{16}$ and $\frac{18}{24}$

10b. Shaded = 0.75 and $\frac{75}{100}$ or $\frac{3}{4}$

Spotted = 0.25 and $\frac{25}{100}$ or $\frac{1}{4}$

11b. 7 counters drawn in the tenths and 5 counters drawn in the hundredths, or any other correct equivalent fractions:

$\frac{75}{100}$; $\frac{3}{4}$; $\frac{6}{8}$; $\frac{9}{12}$

12b. >, <