

ASSESSMENT

Quarters of Shapes Fractions and Decimals 3

We have included the starred Levels with a logical basis to the grade Level, in this assessment, allowing children to demonstrate their highest Level of understanding. If children are familiar with models other than these, they may demonstrate their understanding using those.

FD 1 Halve shapes **FD 2 Halve groups**

half of 7 = 3 r 1
 $\frac{1}{2}$ of 7 = 3 r 1

FD 3 Quarter shapes **FD 4 Quarter groups**

quarter of 9 = 2 r 1
 $\frac{1}{4}$ of 9 = 2 r 1

FD 7 Meaning of denominator as the number we divided by
FD 8 Multiplicative relationships between fractions

	1			$\frac{1}{2}$			$\frac{1}{4}$		
half									
quarter	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
eighth	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

$\frac{1}{4}$ is $\frac{1}{4}$ of 1 $\frac{1}{8}$ is $\frac{1}{8}$ of 1
 $\frac{1}{4}$ is $\frac{1}{2}$ of $\frac{1}{2}$ $\frac{1}{8}$ is $\frac{1}{2}$ of $\frac{1}{4}$
 $\frac{1}{8}$ is $\frac{1}{4}$ of $\frac{1}{2}$ $\frac{1}{8}$ is $\frac{1}{4}$ of $\frac{1}{2}$

FD 9 Meaning of numerator as the number of parts we are concerned with
FD 10 Unit and non-unit fractions on a number line

FD 13 Equivalent fractions and the relationship between numerator and denominator

$\frac{1}{2} = \frac{2}{4} = \frac{4}{8} = \frac{6}{12}$
 $\frac{2}{3} = \frac{8}{12} = \frac{4}{6} = \frac{10}{18}$

FD 14 Equivalent fractions on a number line

FD 20 Role of the vinculum as meaning divided by

$\frac{1}{3} = 1 \div 3$ $\frac{2}{3} = 2 \div 3$
 $\frac{2}{3} = 2 \div 3$

FD 23 Add fractions with the same denominator

$2\frac{2}{4} + 1\frac{3}{4} = 4\frac{1}{4}$

FD 23 Subtract fractions with the same denominator

$2\frac{2}{4} - 1\frac{3}{4} = 1\frac{1}{4}$

FD 28 Fractions in their simplest form

$\frac{4}{12} \div \frac{4}{4} = \frac{1}{3}$
 $\frac{12}{12} \div \frac{4}{4} = 3$

FD 29 Percentages as Hundredths, related to fractions and decimals

ones tenths hundredths thou

one $\frac{1}{100}$ hundredth
 1%
 one hundredth

FD 33 Add fractions with related denominators

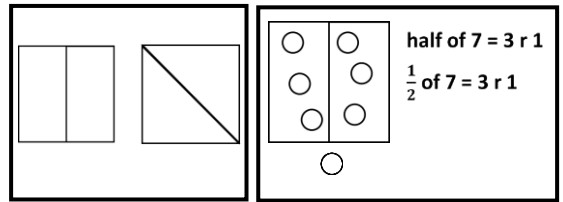
$\frac{3}{5} + \frac{7}{10} = \frac{6}{10} + \frac{7}{10} = \frac{13}{10}$

FD 33 Subtract fractions with related denominators

$\frac{7}{10} - \frac{2}{5} = \frac{7}{10} - \frac{4}{10} = \frac{3}{10}$

Halves of Shapes and Groups

1. Divide a shape in half.
2. Collect some counters.
3. Place half of the counters onto each half of the shape.
4. Record a fraction number sentence.

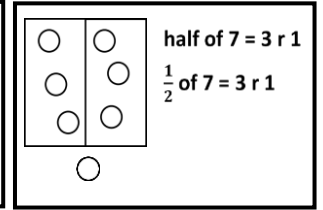
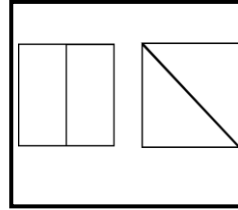


POST - ASSESSMENT

Select the Level of Fractions that allows you to demonstrate your highest understanding.

Halves of Shapes and Groups

1. Divide a shape in half.
2. Collect some counters.
3. Place half of the counters onto each half of the shape.
4. Record a fraction number sentence.

**Quarters of Shapes**

1. Divide a shape in quarters.
2. Collect some counters.

