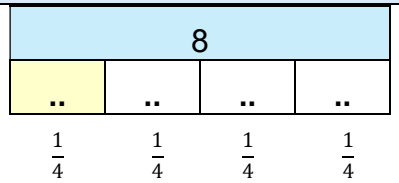
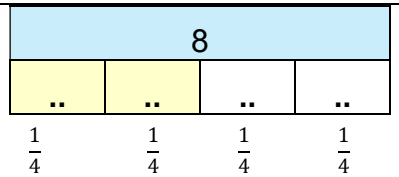
FINDING UNITS AND NON-UNIT FRACTIONS OF AN AMOUNT USING A BAR MODEL

THE MATHS HUB
ADVICE TUITION ASSESSMENT

Name: **Date:**

Answer these questions using a bar model to help you and a multiplication square. The first one has been done for you. If you don't have enough room, draw a bar model on a whiteboard and record your work in a sketch on the sheet. Check your answer on your calculator using the fraction key.

Question	Fraction Grid	Answer	Equation	Explain Your Reasoning
$\frac{1}{4}$ of 8		2	8 ÷ 4 = 2	Finding a quarter of something is the same as dividing by four. So I am dividing eight by four. The answer is two, so one-quarter of eight is one.
$\frac{2}{4}$ of 4		4	8 ÷ 4 = 2 2 x 2 = 2	I already know that one-quarter of eight is two. I need two-quarters of eight, so I need two lots of two or 2 x 2.
$\frac{1}{5}$ of 25				

FINDING UNITS AND NON-UNIT FRACTIONS OF AN AMOUNT USING A BAR MODEL

THE MATHS HUB
ADVICE TUITION ASSESSMENT

Question	Fraction Grid	Answer	Equation	Explain Your Reasoning
$\frac{2}{5}$ of 25				
$\frac{3}{5}$ of 25				
$\frac{4}{5}$ of 25				
$\frac{1}{6}$ of 12				
$\frac{2}{6}$ of 12				
$\frac{3}{6}$ of 12				

FINDING UNITS AND NON-UNIT FRACTIONS OF AN AMOUNT USING A BAR MODEL

THE MATHS HUB
ADVICE TUITION ASSESSMENT

Question	Fraction Grid	Answer	Equation	Explain Your Reasoning
$\frac{4}{6}$ of 12				
$\frac{5}{6}$ of 12				
$\frac{1}{9}$ of 27				
$\frac{2}{9}$ of 27				
$\frac{5}{9}$ of 27				

Extension Question

What is $\frac{3}{20}$ of 100? Can you visualise the process and describe what you are doing? Use these prompts.

- I am visualising a bar model. It looks like…

FINDING UNITS AND NON-UNIT FRACTIONS OF AN AMOUNT USING A BAR MODEL

THE MATHS HUB
ADVICE TUITION ASSESSMENT

- I am sharing counters among the parts. There are too many counters so I need to …
- I am shading the parts I am interested in. How many parts have you shaded?
- I am counting the counters in the shaded parts. There are too many counters so I need to…
- What is your answer?
- What is the equation to show what you did?