1) a)

b) $\frac{1}{2} \times 3=\frac{3}{2}=1 \frac{1}{2} \quad 5 \times \frac{1}{8}=\frac{5}{8}$

$$
\frac{1}{6} \times 4=\frac{4}{6}=\frac{2}{3} \quad \frac{1}{7} \times 8=\frac{8}{7}=1 \frac{1}{7}
$$

1) a) $\frac{1}{4} \times 3=3 \times \frac{1}{4} \quad$ True $\frac{3}{4}=\frac{3}{4}$
b) $\frac{1}{4} \times 5<\frac{1}{5} \times 4 \quad$ False, the calculation should be $\frac{5}{5}=1 \frac{1}{4} \quad 1 \frac{1}{4}>\frac{4}{5}$
c) $\frac{1}{6} \times 5=\frac{1}{12} \times 10 \quad$ True $\frac{5}{6}=\frac{10}{12}=\frac{5}{6}$
d) $\frac{1}{5} \times 4>10 \times \frac{1}{10} \quad$ False, the calculation should be $\frac{4}{5}<\frac{10}{10}=1$ whole
2) $\frac{1}{4} \times 7=\frac{7}{4}=1 \frac{3}{4}$ packs of cheese
3) $\frac{1}{5} \times 6=1 \frac{1}{5}$
$\frac{1}{5} \times 7=1 \frac{2}{5}$
$\frac{1}{5} \times 8=1 \frac{3}{5}$
$\frac{1}{5} \times 9=1 \frac{4}{5}$
Children might choose to use their equivalent fractions knowledge, such as $\frac{1}{10} \times 12=\frac{12}{10}=1 \frac{2}{10}=1 \frac{1}{5}$
4) There are three possible solutions.
$\frac{1}{3} \times 4=\frac{4}{3}=1 \frac{1}{3}$
$\frac{1}{6} \times 8=\frac{8}{6}=1 \frac{2}{6}=1 \frac{1}{3}$
$\frac{1}{12} \times 16=\frac{16}{12}=1 \frac{4}{12}=1 \frac{1}{3}$
No, it is not possible to find a solution to this question when the denominator is larger than the integer you are multiplying by. In order to get an answer between I and 2, you need to create an improper fraction where the numerator is larger than the denominator. This only happens when the integer you are multiplying by is larger than the denominator.
5) a) Match the calculation to the correct model that represents it and then complete the calculation.

b) Complete these calculations. You could draw one of the models similar to the ones used above to help. Simplify your answers where possible.
$\frac{1}{2} \times 3=$ $\qquad$
$\frac{1}{6} \times 4=$ $\qquad$
$5 \times \frac{1}{8}=$ $\qquad$
$8 \times \frac{1}{7}=$ $\qquad$
6) True or false? Prove it!
a) $\frac{1}{4} \times 3=3 \times \frac{1}{4}$ $\qquad$
b) $\frac{1}{4} \times 5<\frac{1}{5} \times 4$ $\qquad$
c) $\frac{1}{6} \times 5=\frac{1}{12} \times 10$ $\qquad$
d) $\frac{1}{5} \times 4<10 \times \frac{1}{10}$
7) Jenny is having a pizza party for her birthday. She needs $\frac{1}{4}$ of a pack of cheese for each pizza. Jenny is making 7 pizzas. How many packs of cheese will she use?

Answer:

1) Find 4 possible solutions to complete the calculation.

2) Jessie multiplies a unit fraction by an integer.

- The fraction has a denominator which is a factor of 12 .
- The product is greater than 1 but less than 2.
- The integer is a factor of 16 .

What could the calculation be? There are 3 possibilities.
$\qquad$
$\qquad$
$\qquad$

Can you find a solution when the denominator of the unit fraction is a larger number than the integer you are multiplying the fraction by?
$\qquad$
$\qquad$
$\qquad$



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Match each calculation to the correct model that represents it and then complete the calculations.


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1) a) Match the calculation to the correct model that represents it and then complete the calculation.

b) Complete these calculations. You could draw one of the models similar to the ones used above to help. Simplify your answers where possible.
$\frac{1}{2} \times 3=5 \times \frac{1}{8}=$
$\frac{1}{6} \times 4=\quad 8 \times \frac{1}{7}=$
2) True or false? Prove it!
a) $\frac{1}{4} \times 3=3 \times \frac{1}{4}$
b) $\frac{1}{4} \times 5<\frac{1}{5} \times 4$
c) $\frac{1}{6} \times 5=\frac{1}{12} \times 10$
d) $\frac{1}{5} \times 4<10 \times \frac{1}{10}$
3) Jenny is having a pizza party for her birthday. She needs $\frac{1}{4}$ of a pack of cheese for each pizza. Jenny is making 7 pizzas. How many packs of cheese will she use?
4) Find 4 possible solutions to complete the calculation.

5) Jessie multiplies a unit fraction by an integer.

- The fraction has a denominator which is a factor of 12 .
- The product is greater than 1 but less than 2 .
- The integer is a factor of 16 .

What could the calculation be? There are 3 possibilities.

Can you find a solution when the denominator of the unit fraction is a larger number than the integer you are multiplying the fraction by?

1) a) Match the calculation to the correct model that represents it and then complete the calculation.


| $5 \times \frac{1}{6}=$ |
| :--- |
| $3 \times \frac{1}{7}=$ |
| $\frac{1}{5} \times 4=$ |
| $\frac{1}{4} \times 4=$ |


b) Complete these calculations. You could draw one of the models similar to the ones used above to help. Simplify your answers where possible.
$\frac{1}{2} \times 3=$
$5 \times \frac{1}{8}=$
$\frac{1}{6} \times 4=$
$8 \times \frac{1}{7}=$

1) True or false? Prove it!
a) $\frac{1}{4} \times 3=3 \times \frac{1}{4}$
b) $\frac{1}{4} \times 5<\frac{1}{5} \times 4$
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2) Jenny is having a pizza party for her birthday. She needs $\frac{1}{4}$ of a pack of cheese for each pizza. Jenny is making 7 pizzas. How many packs of cheese will she use?
3) Find 4 possible solutions to complete the calculation.

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- The fraction has a denominator which is a factor of 12 .
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What could the calculation be? There are 3 possibilities.

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