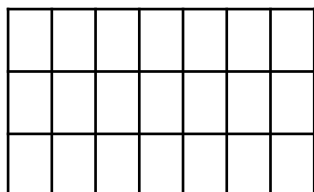
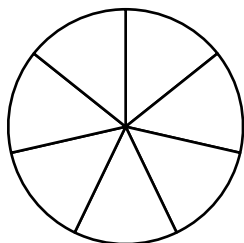
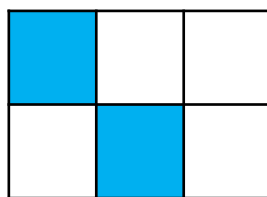


Simplify Fractions

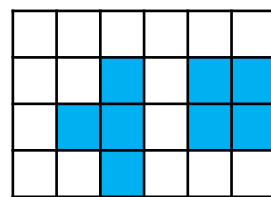
1. Colour $\frac{3}{7}$ of each shape.



4. Jennifer has coloured two grids to create an equivalent fraction.



=



The shaded parts are not equal as they're different shapes.

Is Jennifer correct? Explain your answer

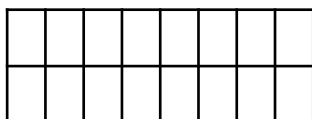
VF

R

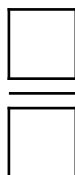
2. Colour the second image to show an equivalent fraction. Write the fractions underneath.



=



=



VF

5. Give 2 possible values for A and B.

$$\frac{4}{A} = \frac{B}{32}$$

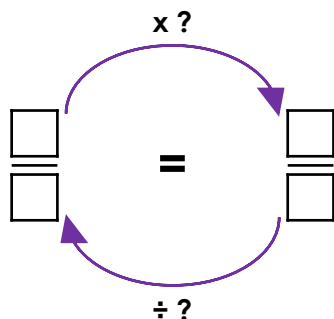
x ?

x ?

PS

3. Complete the sequence of equivalent fractions. Use the diagram to help you.

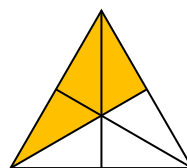
$$\frac{2}{5} = \frac{4}{\quad} = \frac{\quad}{20} = \frac{16}{\quad}$$



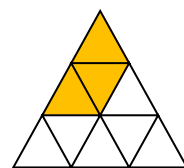
VF

6. Oscar has drawn some equivalent fractions.

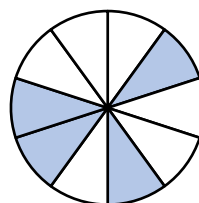
A.



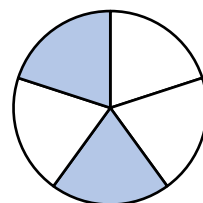
=



B.



=



Find and explain any mistakes.

PS

Simplify Fractions

1. 3 parts of circle coloured; 9 parts of rectangle coloured
2. 6 sections of the shape shaded in any pattern.

$$\frac{\boxed{3}}{\boxed{8}} = \frac{\boxed{6}}{\boxed{16}}$$

$$3. \quad \frac{\boxed{2}}{\boxed{5}} = \frac{\boxed{4}}{\boxed{10}} = \frac{\boxed{8}}{\boxed{20}} = \frac{\boxed{16}}{\boxed{40}}$$

4. Jennifer is incorrect. Although the shaded parts look different, they represent the same amount of the shapes. The right shape has $\frac{8}{24}$ shaded which is equivalent to $\frac{2}{6}$.
5. Various answers, for example: A = 16, B = 8 or A = 8, B = 16.
6. Oscar has shaded the B shapes to be equivalent but he has not shaded the A shapes to be equivalent. He has shaded 3 parts of each shape but they do not have the same denominator. The shape on the left has $\frac{3}{6}$ shaded whereas the shape on the right has $\frac{3}{9}$ shaded.