YEAR 7 • FRACTIONS

Finding Equivalent Fractions

Identify and generate fractions with the same value.

Name: _____ **Date:** _____

Remember Multiply or divide the numerator and denominator by the same non-zero number.

1 Spot the equivalent fractions

Tick one box for each pair.

a $\frac{3}{5}$ and $\frac{12}{20}$ ☐ Yes ☐ No

b $\frac{4}{9}$ and $\frac{20}{45}$ ☐ Yes ☐ No

c $\frac{5}{8}$ and $\frac{15}{24}$ ☐ Yes ☐ No

d $\frac{6}{7}$ and $\frac{18}{28}$ ☐ Yes ☐ No

e $\frac{7}{10}$ and $\frac{21}{30}$ ☐ Yes ☐ No

f $\frac{8}{12}$ and $\frac{10}{15}$ ☐ Yes ☐ No

2 Fill in the missing number

Make each pair of fractions equivalent.

a $\frac{2}{3} = \frac{\quad}{12}$

b $\frac{5}{6} = \frac{20}{\quad}$

c $\frac{\quad}{7} = \frac{12}{21}$

d $\frac{18}{24} = \frac{3}{\quad}$

e $\frac{\quad}{15} = \frac{4}{5}$

f $\frac{14}{35} = \frac{\quad}{5}$

3 Complete each chain

Use the same multiplier for the numerator and denominator.

a $\frac{2}{5} = \frac{\quad}{15} = \frac{8}{\quad}$

b $\frac{3}{4} = \frac{12}{\quad} = \frac{\quad}{20}$

c $\frac{5}{6} = \frac{\quad}{18} = \frac{20}{\quad}$

d $\frac{7}{9} = \frac{21}{\quad} = \frac{\quad}{45}$

4 Simplify fully

Divide the numerator and denominator by the same number.

a $\frac{18}{30} \div ___ = \frac{\quad}{\quad}$

b $\frac{24}{36} \div ___ = \frac{\quad}{\quad}$

c $\frac{35}{49} \div ___ = \frac{\quad}{\quad}$

d $\frac{42}{56} \div ___ = \frac{\quad}{\quad}$

5 Explain your thinking

Choose one equivalent pair from Section 1. Explain which number the numerator and denominator were multiplied or divided by.