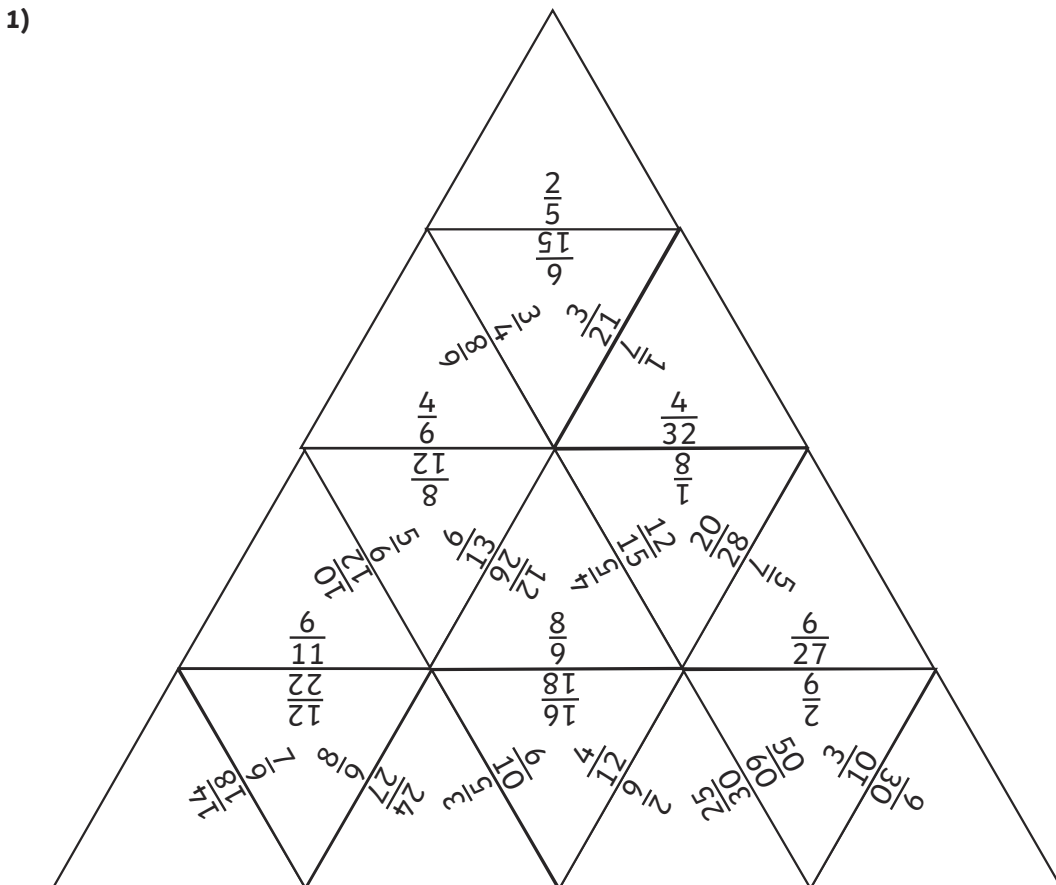




- 1)
- |                                  |                                   |
|----------------------------------|-----------------------------------|
| $= \frac{1}{2}$ $= \frac{5}{10}$ | $= \frac{5}{6}$ $= \frac{10}{12}$ |
| $= \frac{2}{3}$ $= \frac{6}{9}$  | $= \frac{3}{4}$ $= \frac{6}{8}$   |
- 2)
- a)  $\frac{4}{5} = \frac{8}{10}$  I looked at the denominators. As  $5 \times 2 = 10$ , I knew I needed to multiply the numerator by 2.
- b)  $\frac{6}{18} = \frac{2}{6}$  I looked at the denominators. As  $18 \div 3 = 6$ , I knew I needed to divide the numerator by 3.
- c)  $\frac{2}{3} = \frac{10}{15}$  I looked at the numerators. As  $2 \times 5 = 10$ , I knew I needed to multiply the denominator by 5.

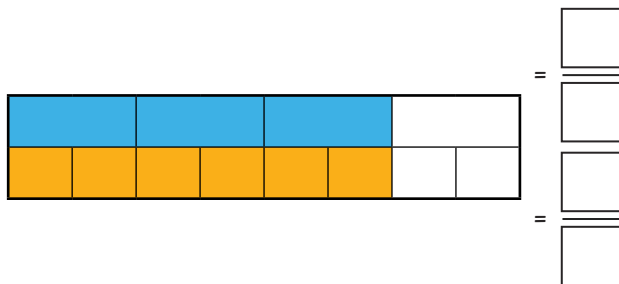
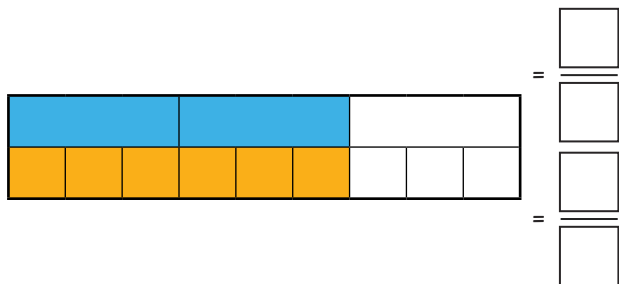
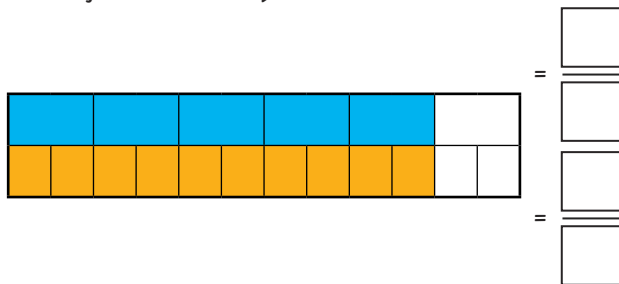
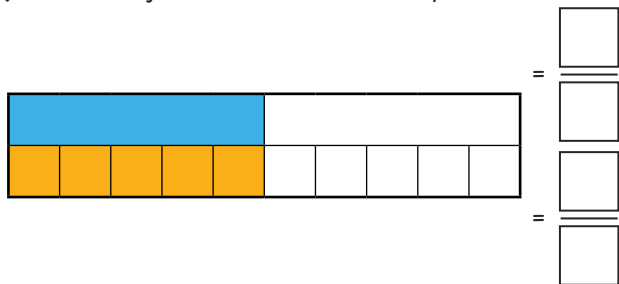


- 1) Wes is wrong because you need to multiply or divide the numerator and denominator by the same number to find an equivalent fraction. Instead, Wes has added two to both the numerator and denominator, which is an incorrect method.
- 2) Possible answers:
- $\frac{2}{2} = \frac{12}{12}$     $\frac{2}{3} = \frac{8}{12}$     $\frac{2}{4} = \frac{6}{12}$     $\frac{2}{6} = \frac{4}{12}$





1) Write the fraction that each bar represents to show that the fractions are equivalent.



2) Complete these equivalent fraction statements.

What method could you use to find the missing numerator or denominator for each one?

a)

$$\frac{4}{5} = \frac{\square}{10}$$

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b)

$$\frac{6}{18} = \frac{\square}{6}$$

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---

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c)

$$\frac{2}{3} = \frac{10}{\square}$$

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1) Wes the Wizard is finding equivalent fractions. He says,

$\frac{5}{6}$  is equivalent to  $\frac{7}{8}$  because whatever you do to the top, you also do to the bottom.



Explain why Wes is wrong.

---



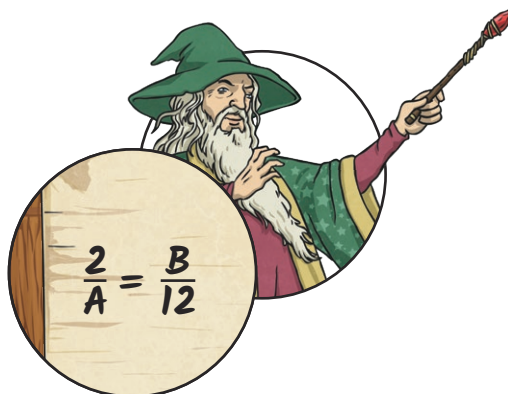
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2) Marc the Master Wizard is working out some equivalent fractions. He has written this in his spell book:

Give 4 possible sets of equivalent fractions showing the values of A and B.




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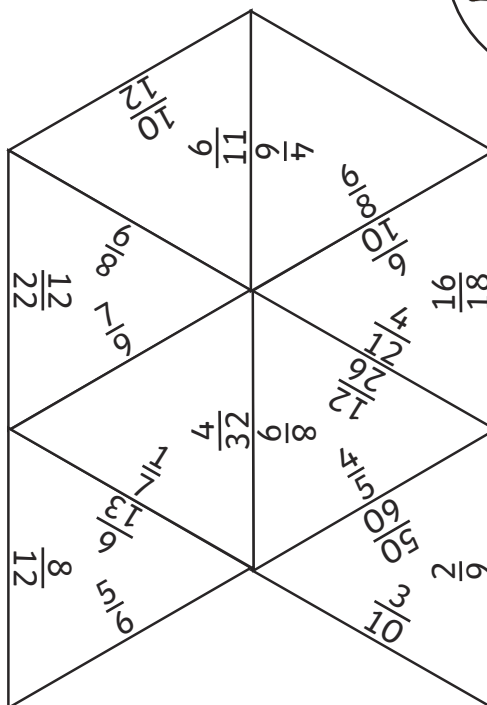
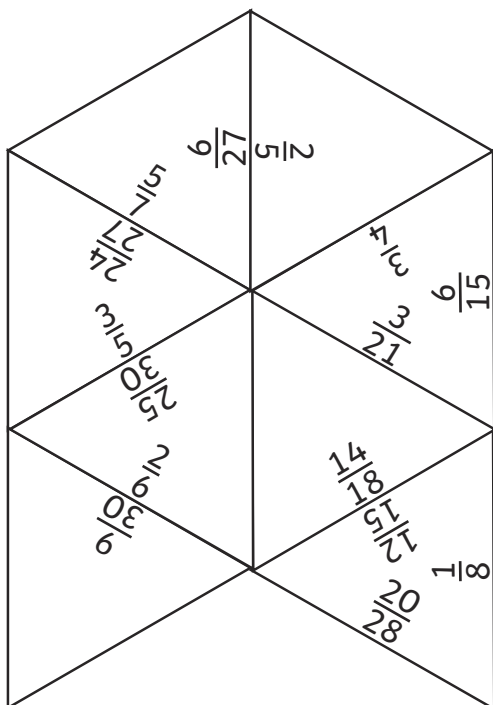


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1) Wendy the Wizard needs to complete the jigsaw to release her spell book from her evil enemy's clutches. Match the mini triangle cards, so that pairs of equivalent fractions are next to each other, to build a larger triangle.



Diving into Mastery

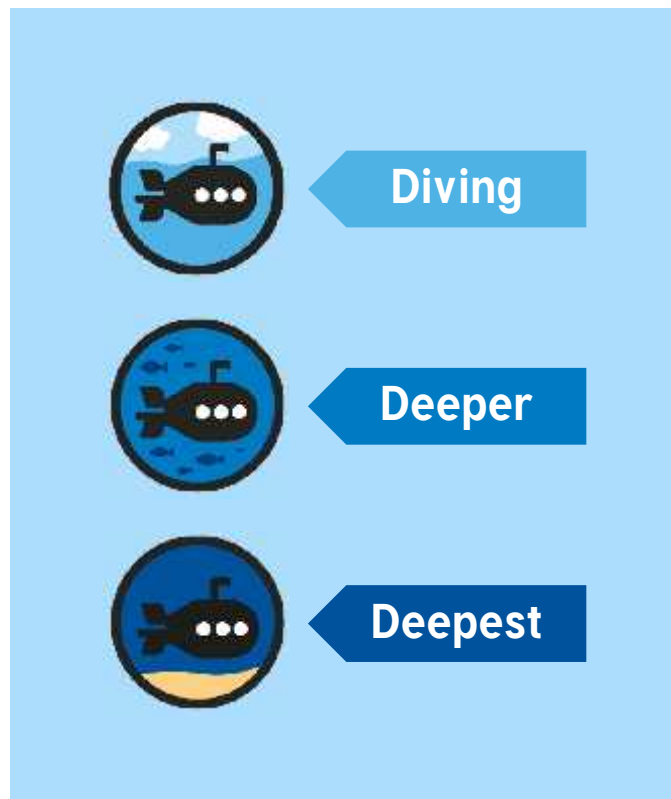


# Equivalent Fractions



# Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

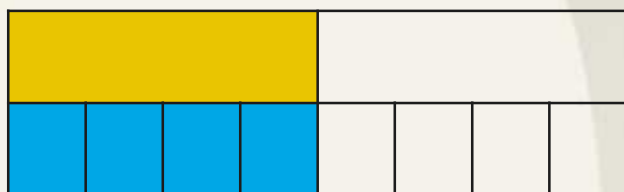
These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

# Aim

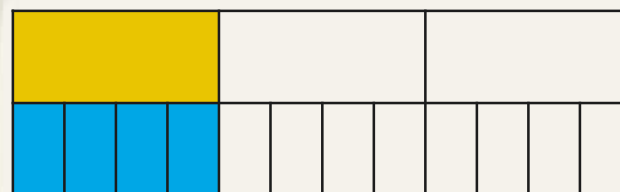
- Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.



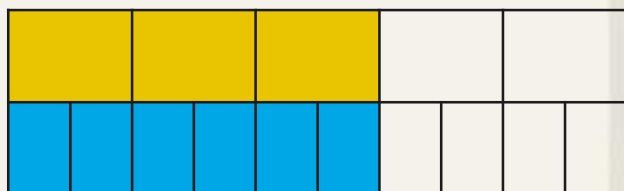
Identify the fraction that each bar represents to show that the pairs of fractions are equivalent.



$$\frac{1}{2} = \frac{4}{8}$$



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



$$\frac{3}{5} = \frac{6}{10}$$



$$\frac{1}{4} = \frac{2}{8}$$



Complete these equivalent fraction statements. What method could you use to find the missing numerator or denominator for each one?

$$\frac{3}{5} = \frac{9}{15}$$

Diagram showing the conversion of  $\frac{3}{5}$  to  $\frac{9}{15}$ . A blue arrow above the fraction points from 3 to 9 with the label  $\times 3$ . A blue arrow below the fraction points from 5 to 15 with the label  $\times 3$ .

I looked at the denominators.  
As  $5 \times 3 = 15$ , I knew I needed to multiply the numerator by 3.

$$\frac{10}{12} = \frac{5}{6}$$

Diagram showing the conversion of  $\frac{10}{12}$  to  $\frac{5}{6}$ . A blue arrow above the fraction points from 10 to 5 with the label  $\div 2$ . A blue arrow below the fraction points from 12 to 6 with the label  $\div 2$ .

I looked at the denominators.  
As  $12 \div 2 = 6$ , I knew I needed to divide the numerator by 2.

$$\frac{4}{6} = \frac{8}{12}$$

Diagram showing the conversion of  $\frac{4}{6}$  to  $\frac{8}{12}$ . A blue arrow above the fraction points from 4 to 8 with the label  $\times 2$ . A blue arrow below the fraction points from 6 to 12 with the label  $\times 2$ .

I looked at the numerators.  
As  $8 \div 2 = 4$ , I knew I needed to divide 12 by 2.





$$\frac{2}{A} = \frac{B}{16}$$

$$\frac{2}{2} = \frac{16}{16}$$

$$\frac{2}{4} = \frac{8}{16}$$

$$\frac{2}{8} = \frac{4}{16}$$

$$\frac{2}{32} = \frac{1}{16}$$

Marc the Master Wizard is working out some equivalent fractions. He has written this in his spell book:

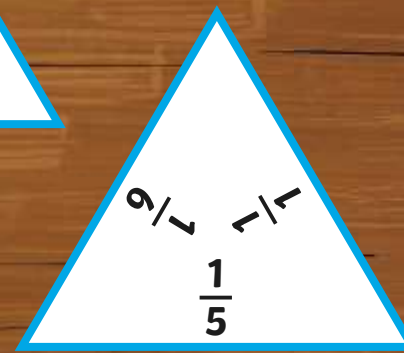
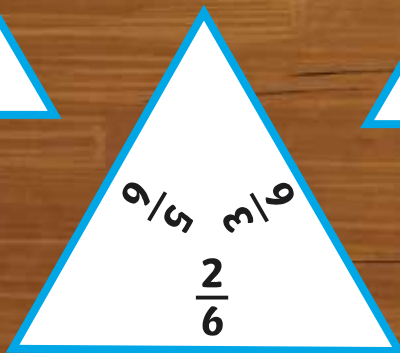
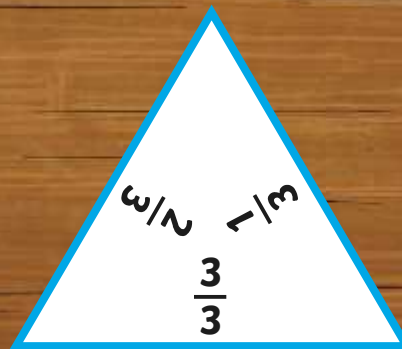
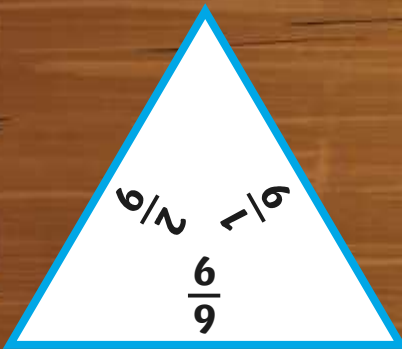
Give 3 possible pairs of equivalent fractions showing the values of A and B.

## Equivalent Fractions

## Deepest



Wendy the Wizard needs to complete the jigsaw to rescue her friend from the Triangle of Terror. Match the mini triangle cards, so that pairs of equivalent fractions are next to each other, to build the larger triangle.







1) Write the fraction that each bar represents to show that the fractions are equivalent.



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2) Complete these equivalent fraction statements. What method could you use to find the missing numerator or denominator for each one?

a)  $\frac{4}{5} = \frac{\square}{10}$       b)  $\frac{6}{18} = \frac{\square}{6}$       c)  $\frac{2}{3} = \frac{10}{\square}$

1) Write the fraction that each bar represents to show that the fractions are equivalent.



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2) Complete these equivalent fraction statements. What method could you use to find the missing numerator or denominator for each one?

a)  $\frac{4}{5} = \frac{\square}{10}$       b)  $\frac{6}{18} = \frac{\square}{6}$       c)  $\frac{2}{3} = \frac{10}{\square}$

- 1) Wes the Wizard is finding equivalent fractions. He says,

$\frac{5}{6}$  is equivalent to  $\frac{7}{8}$  because whatever you do to the top, you also do to the bottom.



Explain why Wes is wrong.

- 2) Marc the Master Wizard is working out some equivalent fractions. He has written this in his spell book:

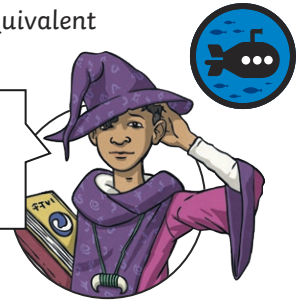
$$\frac{2}{A} = \frac{B}{12}$$

Give 4 possible sets of equivalent fractions showing the values of A and B.

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- 1) Wes the Wizard is finding equivalent fractions. He says,

$\frac{5}{6}$  is equivalent to  $\frac{7}{8}$  because whatever you do to the top, you also do to the bottom.



Explain why Wes is wrong.

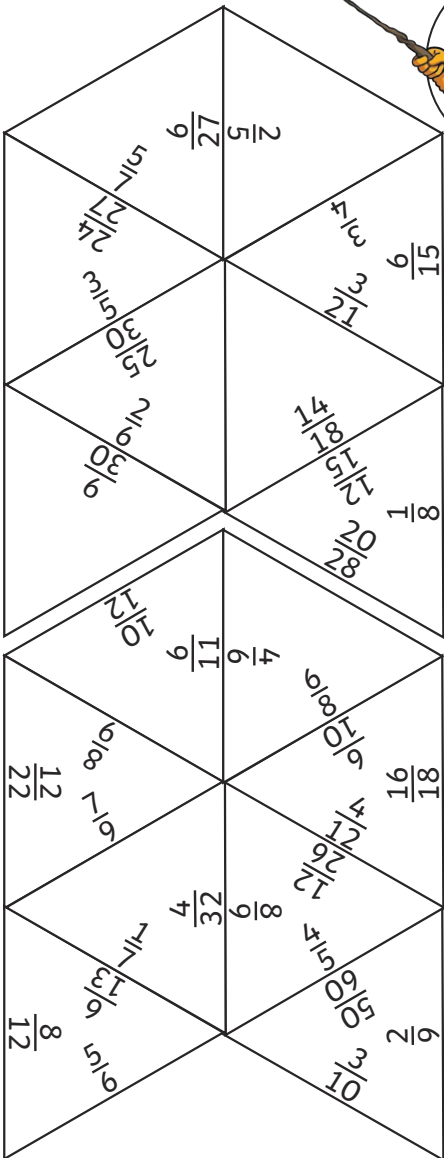
- 2) Marc the Master Wizard is working out some equivalent fractions. He has written this in his spell book:

$$\frac{2}{A} = \frac{B}{12}$$

Give 4 possible sets of equivalent fractions showing the values of A and B.

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- 1) Wendy the Wizard needs to complete the jigsaw to release her spell book from her evil enemy's clutches. Match the mini triangle cards, so that pairs of equivalent fractions are next to each other, to build a larger triangle.



- 1) Wendy the Wizard needs to complete the jigsaw to release her spell book from her evil enemy's clutches. Match the mini triangle cards, so that pairs of equivalent fractions are next to each other, to build a larger triangle.

