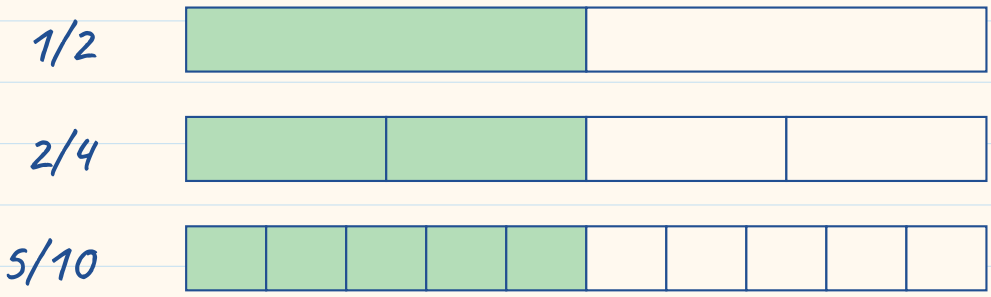
Equivalent fractions and decimals

Number · VC2M4N03

Equivalent fractions name the same amount of the same whole.



Same whole. Same amount. 1/2 = 0.5

☆ Parts of the same whole

Denominator: how many equal parts make one whole.

Numerator: how many of those equal parts we have.

4/4 = 1 and 8/4 = 2: fractions can name whole numbers.

☆ Make equivalent fractions

Multiply both by the same non-zero number: 1/2 = 2/4.

Divide both by a common factor: 6/8 = 3/4.

3/4 = □/20: multiply both by 5, so □ = 15.

☆ Connect fractions and decimals

1/10 = 0.1; 1/100 = 0.01; 2 3/4 = 2.75.

1/4 m = 0.25 m = 25 cm; 3/4 = 0.75.

0.6 = 6/10 = 3/5: simplify by dividing both by 2.

☆ Compare using equal-sized parts

Compare 1/2 and 3/4: change 1/2 to 2/4.

2/4 < 3/4, so 1/2 < 3/4.

1/4 of 12 = 12 ÷ 4 = 3: share 12 into 4 equal groups.

Remember...

Use wholes of the same size when comparing fraction pictures.

Use × or ÷ on both parts to make an equivalent fraction.