# Fraction Visuals and Divisibility Proofs

Native Typst math handles ordinary fractions; these proofs cover the visual teaching models missing from the screenshot coverage map.

## Calculator fraction key

**inline**

Enter $\frac{12}{62}$ using the fraction button.

**labelled**

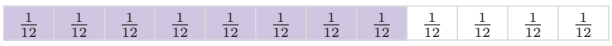
fraction button

**large**

## Fraction strips

**single strip, fifths**

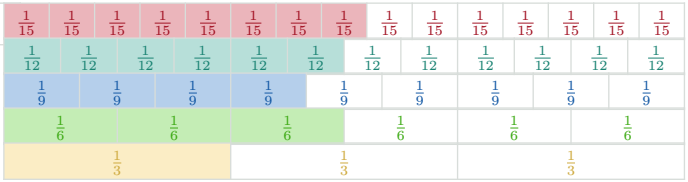

**single strip, twelfths**




**blank student strip**



**equivalent fraction stack**




**fraction multiply table**

| | × 2 | × 3 | × 4 | × 5 |
|---|---|---|---|---|
| $\frac{1}{2}$ | $\frac{2}{4}$ | $\frac{3}{6}$ | $\frac{4}{8}$ | $\frac{5}{10}$ |
| $\frac{1}{4}$ | | | | |
| $\frac{1}{3}$ | | | | |
| $\frac{1}{5}$ | | | | |
| $\frac{1}{10}$ | | | | |
| $\frac{3}{4}$ | | | | |

## Fraction pies

**halves**

**fifths**

**eighths**

compact set


large no label

large labelled


## Divisibility

standard rule table

| A number will divide by: | Example |
|---|---|
| 2 If it is an even number. | Try 317. The last digit, 7, is not even. 317 will not divide by 2. |
| 3 If the sum of its digits can be divided by 3. | Try 411. $4+1+1=6$. 6 can be divided by 3. 411 can be divided by 3. |
| 4 If the last 2 digits can be divided by 4. | Try 316. The number from the last 2 digits, 16, can be divided by 4. |
| 5 If the last digit is 0 or 5. | Try 345. The last digit is 5. 345 can be divided by 5. |
| 6 If it can be divided by 2 and 3. | Try 342. It is even and $3+4+2=9$. 342 can be divided by 6. |
| 9 If the sum of its digits can be divided by 9. | Try 522. $5+2+2=9$. 522 can be divided by 9. |
| 10 If the last digit is 0. | Try 780. The last digit is 0. 780 can be divided by 10. |

compact rule table

| A number will divide by: | Example |
|---|---|
| 2 If it is an even number. | Try 317. The last digit, 7, is not even. 317 will not divide by 2. |
| 3 If the sum of its digits can be divided by 3. | Try 411. $4+1+1=6$. 6 can be divided by 3. 411 can be divided by 3. |
| 4 If the last 2 digits can be divided by 4. | Try 316. The number from the last 2 digits, 16, can be divided by 4. |
| 5 If the last digit is 0 or 5. | Try 345. The last digit is 5. 345 can be divided by 5. |
| 6 If it can be divided by 2 and 3. | Try 342. It is even and $3+4+2=9$. 342 can be divided by 6. |
| 9 If the sum of its digits can be divided by 9. | Try 522. $5+2+2=9$. 522 can be divided by 9. |
| 10 If the last digit is 0. | Try 780. The last digit is 0. 780 can be divided by 10. |