

TARGET To change an improper fraction to a mixed number and vice versa.

Examples

Change $\frac{20}{3}$ to a mixed number.

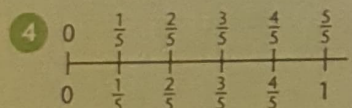
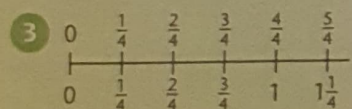
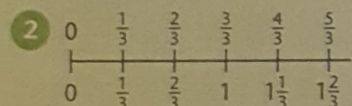
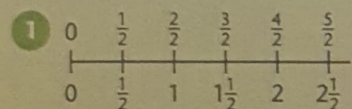
$$\begin{aligned} \frac{20}{3} &= 20 \div 3 \\ &= 6 \text{ remainder } 2 \\ &= 6\frac{2}{3} \end{aligned}$$

Change $3\frac{2}{5}$ to an improper fraction.

$$\begin{aligned} 3\frac{2}{5} &= 3 + \frac{2}{5} \\ &= \frac{15}{5} + \frac{2}{5} \\ &= \frac{17}{5} \end{aligned}$$

A

Write the next five pairs of numbers in each number line.



Use your number lines to write these improper fractions as mixed numbers.

- | | |
|------------------|-------------------|
| 5 $\frac{7}{2}$ | 9 $\frac{9}{2}$ |
| 6 $\frac{5}{3}$ | 10 $\frac{7}{3}$ |
| 7 $\frac{11}{4}$ | 11 $\frac{5}{4}$ |
| 8 $\frac{8}{5}$ | 12 $\frac{11}{5}$ |

Use your number lines to write these mixed numbers as improper fractions.

- | | |
|-------------------|-------------------|
| 13 $2\frac{1}{2}$ | 17 $5\frac{1}{2}$ |
| 14 $3\frac{1}{3}$ | 18 $2\frac{2}{3}$ |
| 15 $1\frac{3}{4}$ | 19 $2\frac{1}{4}$ |
| 16 $1\frac{4}{5}$ | 20 $1\frac{1}{5}$ |

B

Copy and complete.

1 $\frac{7}{5} = 1 \square$

2 $\frac{13}{4} = \square \frac{1}{4}$

3 $7\frac{1}{2} = \square$

4 $3\frac{2}{3} = \square$

Change to mixed numbers.

- | | |
|------------------|--------------------|
| 5 $\frac{17}{2}$ | 9 $\frac{23}{5}$ |
| 6 $\frac{17}{6}$ | 10 $\frac{11}{8}$ |
| 7 $\frac{21}{4}$ | 11 $\frac{16}{3}$ |
| 8 $\frac{22}{9}$ | 12 $\frac{27}{10}$ |

Change to improper fractions.

- | | |
|-------------------|--------------------|
| 13 $4\frac{3}{4}$ | 17 $1\frac{2}{9}$ |
| 14 $2\frac{5}{7}$ | 18 $2\frac{4}{5}$ |
| 15 $6\frac{2}{3}$ | 19 $3\frac{3}{10}$ |
| 16 $4\frac{1}{6}$ | 20 $2\frac{7}{8}$ |

Write as both mixed numbers and improper fractions.

- | | |
|----|--|
| 21 | |
| 22 | |
| 23 | |
| 24 | |
| 25 | |

C

Change to mixed numbers.

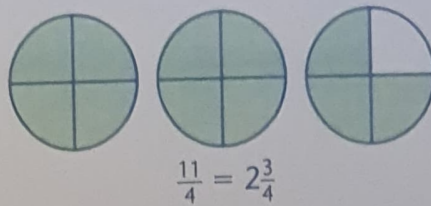
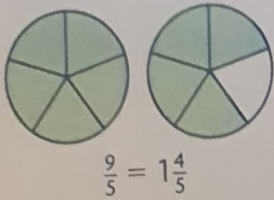
- | | |
|-------------------|----------------------|
| 1 $\frac{24}{5}$ | 9 $\frac{89}{20}$ |
| 2 $\frac{25}{3}$ | 10 $\frac{648}{100}$ |
| 3 $\frac{49}{10}$ | 11 $\frac{43}{12}$ |
| 4 $\frac{27}{8}$ | 12 $\frac{37}{16}$ |
| 5 $\frac{29}{4}$ | 13 $\frac{114}{25}$ |
| 6 $\frac{41}{7}$ | 14 $\frac{105}{40}$ |
| 7 $\frac{37}{6}$ | 15 $\frac{96}{15}$ |
| 8 $\frac{41}{9}$ | 16 $\frac{167}{50}$ |

Change to improper fractions.

- | | |
|--------------------|---------------------|
| 17 $6\frac{3}{4}$ | 25 $9\frac{1}{11}$ |
| 18 $8\frac{1}{10}$ | 26 $5\frac{6}{100}$ |
| 19 $3\frac{7}{9}$ | 27 $3\frac{18}{30}$ |
| 20 $7\frac{3}{5}$ | 28 $3\frac{7}{18}$ |
| 21 $5\frac{7}{8}$ | 29 $2\frac{7}{24}$ |
| 22 $8\frac{5}{6}$ | 30 $5\frac{39}{50}$ |
| 23 $9\frac{2}{3}$ | 31 $4\frac{2}{13}$ |
| 24 $4\frac{4}{7}$ | 32 $5\frac{5}{21}$ |

TARGET To recognise an improper fraction and write as a mixed number.

Examples

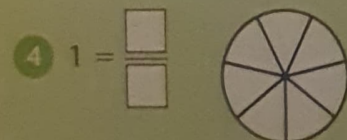
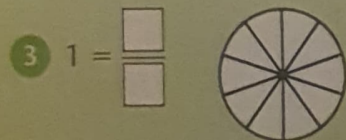
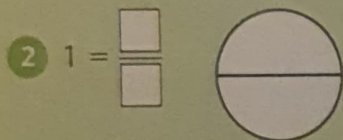
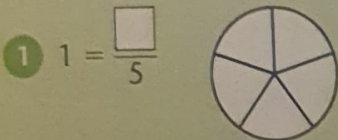


21 tenths = $2\frac{1}{10}$

$\frac{21}{10} = 2\frac{1}{10}$

A

Use the diagram to help complete the fraction.



Copy and complete.

- 5 $1 = \square$ thirds
- 6 $1 = \square$ eighths
- 7 $1 = \square$ quarters
- 8 $1 = \square$ ninths

Write the next four terms in each sequence using mixed numbers.

- 9 $0, \frac{1}{4}, \frac{2}{4}, \frac{3}{4}, 1, 1\frac{1}{4}$
- 10 $0, \frac{1}{2}, 1, 1\frac{1}{2}, 2, 2\frac{1}{2}$
- 11 $0, \frac{1}{3}, \frac{2}{3}, 1, 1\frac{1}{3}, 1\frac{2}{3}$
- 12 $0, \frac{1}{8}, \frac{2}{8}, \frac{3}{8}, \frac{4}{8}, \frac{5}{8}$

B

Write the shaded area as:

- a) an improper fraction
- b) a mixed number.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

Write as an improper fraction and complete the mixed number.

- 9 7 quarters = $1 \frac{\square}{\square}$
- 10 5 halves = $\square \frac{1}{2}$
- 11 17 tenths = $1 \frac{\square}{\square}$
- 12 8 fifths = $\square \frac{3}{5}$
- 13 7 thirds = \square
- 14 15 eighths = \square
- 15 10 sixths = \square
- 16 9 quarters = \square

C

Change to mixed numbers.

- 1 $\frac{7}{2}$
- 2 $\frac{21}{5}$
- 3 $\frac{29}{10}$
- 4 $\frac{13}{8}$
- 5 $\frac{29}{4}$
- 6 $\frac{55}{6}$
- 7 $\frac{346}{100}$
- 8 $\frac{53}{12}$

Copy and complete.

- 9 $3\frac{3}{4} = \square$ quarters
- 10 $5\frac{7}{10} = \square$ tenths
- 11 $6\frac{3}{5} = \square$ fifths
- 12 $2\frac{19}{100} = \square$ hundredths
- 13 $4\frac{5}{6} = \square$ sixths
- 14 $3\frac{4}{9} = \square$ ninths
- 15 $7\frac{3}{8} = \square$ eighths
- 16 $6\frac{4}{7} = \square$ sevenths

Write the next four terms in each sequence using mixed numbers.

- 17 $\frac{1}{7}, \frac{3}{7}, \frac{5}{7}, 1$
- 18 $\frac{1}{6}, \frac{2}{6}, \frac{3}{6}, \frac{4}{6}$
- 19 $\frac{1}{10}, \frac{3}{10}, \frac{5}{10}, \frac{7}{10}$
- 20 $\frac{1}{9}, \frac{3}{9}, \frac{5}{9}, \frac{7}{9}$