

LO: To convert between mixed numbers and improper fractions (bronze)

Practise Convert these fractions from improper to mixed

- 1)  $\frac{27}{5}$
- 2)  $\frac{11}{6}$
- 3)  $\frac{13}{3}$
- 4)  $\frac{17}{4}$
- 5)  $\frac{29}{7}$

Convert these fractions from mixed to improper

- 6)  $2\frac{3}{5}$
- 7)  $5\frac{2}{7}$
- 8)  $4\frac{3}{4}$
- 9)  $9\frac{1}{2}$
- 10)  $6\frac{5}{6}$

Fluency

11) A pizza has 8 slices. At a party, 2 full pizzas and 3 slices are left over. Write this as an improper fraction.

12) Pencils are packed 6 to a box. A teacher hands them out and has  $\frac{15}{6}$  left. Write how many boxes she has left as a mixed number.

13) Use  $<$ ,  $>$  and  $=$  to compare these fractions

- |                |                |
|----------------|----------------|
| $\frac{13}{4}$ | $3\frac{2}{4}$ |
| $\frac{12}{5}$ | $1\frac{3}{5}$ |
| $\frac{37}{7}$ | $5\frac{4}{7}$ |

14) Eva has 7 bottles of juice.

Each bottle contains half a litre of juice.



How many litres of juice does Eva have altogether?

Write your answer as a mixed number.

LO: To convert between mixed numbers and improper fractions (silver)

Practise Convert these fractions from improper to mixed

1)  $17/4$

2)  $29/7$

3)  $34/9$

Convert these fractions from mixed to improper

4)  $9 \frac{1}{2}$

5)  $6 \frac{5}{6}$

6)  $7 \frac{8}{9}$

Fluency

7) Use  $<$ ,  $>$  and  $=$  to compare these fractions

$13/4$            $3 \frac{2}{4}$

$12/5$            $1 \frac{3}{5}$

$37/7$            $5 \frac{4}{7}$

$14/3$            $4 \frac{2}{3}$

Reasoning

8) Charlie and Carol each had two sandwiches of the same size. Charlie ate  $1 \frac{1}{4}$  of his sandwiches. Carol ate  $5/4$  of her sandwiches. Fred said Carol ate more because 5 is the biggest number. Tammy said Charlie ate more because he ate a whole sandwich. Explain why Tammy and Fred are both wrong.

9) True or false? A mixed number is not a whole number. Explain why.

10) Spot and explain the mistake.  $13/5 = 3 \frac{3}{5}$


Problem solving

11) ) For the school's sports day, a group of students prepared  $21 \frac{1}{2}$  litres of lemonade. At the end of the day they had  $2 \frac{5}{8}$  litres left over. How many litres of lemonade were sold?

12)

Find the value of 

$$\frac{27}{\text{yellow circle}} = \text{yellow circle} \frac{2}{\text{yellow circle}}$$

 =

LO: To convert between mixed numbers and improper fractions (gold)

Practise Convert these fractions from improper to mixed

1)  $\frac{29}{7}$

2)  $\frac{34}{9}$

Convert these fractions from mixed to improper

3)  $6 \frac{5}{6}$

4)  $7 \frac{8}{9}$

Reasoning

5) Charlie and Carol each had two sandwiches of the same size. Charlie ate  $1 \frac{1}{4}$  of his sandwiches. Carol ate  $\frac{5}{4}$  of her sandwiches. Fred said Carol ate more because 5 is the biggest number. Tammy said Charlie ate more because he ate a whole sandwich. Explain why Tammy and Fred are both wrong.

6) True or false? A mixed number is not a whole number. Explain why.

7) Spot and explain the mistake.  $\frac{13}{5} = 3 \frac{3}{5}$

Problem solving


8) For the school's sports day, a group of students prepared  $21 \frac{1}{2}$  litres of lemonade. At the end of the day they had  $2 \frac{5}{8}$  litres left over. How many litres of lemonade were sold?


9) If they sold the lemonade in 125ml glasses, which they sold at 30p each, how many glasses did they sell and how much did they make?


10)


Find two possible values for  and 

$$\frac{30}{\star} = \triangle \frac{2}{\star}$$

 =

 =

 =

 =

LO: To convert between mixed numbers and improper fractions (brnze) - answers

Practise Convert these fractions from improper to mixed

- 1) 5 and  $\frac{2}{5}$
- 2) 1 and  $\frac{5}{6}$
- 3) 4 and  $\frac{1}{3}$
- 4) 4 and  $\frac{1}{4}$
- 5) 4 and  $\frac{1}{7}$

Convert these fractions from mixed to improper

- 6)  $\frac{13}{5}$
- 7)  $\frac{37}{7}$
- 8)  $\frac{19}{4}$
- 9)  $\frac{19}{2}$
- 10)  $\frac{41}{6}$

Fluency

11)  $\frac{19}{8}$

12) 2 and  $\frac{3}{6}$  or 2 and  $\frac{1}{2}$

13) Use  $<$ ,  $>$  and  $=$  to compare these fractions

$$\frac{13}{4} < 3 \frac{2}{4}$$

$$\frac{12}{5} > 1 \frac{3}{5}$$

$$\frac{37}{7} < 5 \frac{4}{7}$$

14)

Eva has 7 bottles of juice.

Each bottle contains half a litre of juice.



How many litres of juice does Eva have altogether?

3.5 litres

Write your answer as a mixed number.

$3 \frac{1}{2}$  litres

LO: To convert between mixed numbers and improper fractions (silver) - answers

Practise Convert these fractions from improper to mixed

1) 4 and  $\frac{1}{4}$

2) 4 and  $\frac{1}{7}$

3) 3 and  $\frac{7}{9}$

Convert these fractions from mixed to improper

4)  $\frac{19}{2}$

5)  $\frac{41}{6}$

6)  $\frac{71}{9}$

Fluency

7) Use  $<$ ,  $>$  and  $=$  to compare these fractions

$\frac{13}{4} < 3 \frac{2}{4}$

$\frac{12}{5} > 1 \frac{3}{5}$

$\frac{37}{7} < 5 \frac{4}{7}$

$\frac{14}{3} = 4 \frac{2}{3}$

Reasoning

8) Both fractions are equivalent to one another.

9) True because a whole number is a number without a fraction

10) They have miscalculated how many 5's are in 13 it should be  $2 \frac{3}{5}$

Problem solving

11) 18 and  $\frac{7}{8} = 18.875$  litres

12)

Find the value of  $\odot$

$$\frac{27}{\odot} = \odot \frac{2}{\odot}$$

$$\odot = \boxed{5}$$

LO: To convert between mixed numbers and improper fractions (gold) - answers

Practise Convert these fractions from improper to mixed

1) 4 and  $\frac{1}{7}$

2) 3 and  $\frac{7}{9}$

Convert these fractions from mixed to improper

3)  $\frac{41}{6}$

4)  $\frac{71}{9}$

Reasoning

5) Both fractions are equivalent to one another.

6) True because a whole number is a number without a fraction

7) They have miscalculated how many 5's are in 13, it should be  $2\frac{3}{5}$

Problem solving

8) 18 and  $\frac{7}{8}$  = 18.875 litres

9) £45.30

10)

Find two possible values for ★ and ▲

$$\frac{30}{\star} = \triangle \frac{2}{\star}$$

$$\star = \boxed{7}$$

$$\triangle = \boxed{4}$$

$$\star = \boxed{4}$$

$$\triangle = \boxed{7}$$