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

Examples

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

$\frac{20}{3} = 20 \div 3$

$= 6$ remainder 2

$= 6\frac{2}{3}$

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

$3\frac{2}{5} = 3 + \frac{2}{5}$

$= \frac{15}{5} + \frac{2}{5}$

$= \frac{17}{5}$

A

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

1. 0, $\frac{1}{2}$, $\frac{2}{2}$, $\frac{3}{2}$, $\frac{4}{2}$, $\frac{5}{2}$ / 0, $\frac{1}{2}$, 1, $1\frac{1}{2}$, 2, $2\frac{1}{2}$
2. 0, $\frac{1}{3}$, $\frac{2}{3}$, $\frac{3}{3}$, $\frac{4}{3}$, $\frac{5}{3}$ / 0, $\frac{1}{3}$, $\frac{2}{3}$, 1, $1\frac{1}{3}$, $1\frac{2}{3}$
3. 0, $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$, $\frac{4}{4}$, $\frac{5}{4}$ / 0, $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$
4. 0, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{3}{5}$, $\frac{4}{5}$, $\frac{5}{5}$ / 0, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{3}{5}$, $\frac{4}{5}$, 1

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

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

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

13. $2\frac{1}{2}$
14. $3\frac{1}{3}$
15. $1\frac{3}{4}$
16. $1\frac{4}{5}$
17. $5\frac{1}{2}$
18. $2\frac{2}{3}$
19. $2\frac{1}{4}$
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. $3\frac{2}{3} = \square$

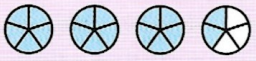
Change to mixed numbers.

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

Change to improper fractions.

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

Write as both mixed numbers and improper fractions.

21. 
22. 
23. 
24. 
25. 

C

Change to mixed numbers.

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

Change to improper fractions.

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