Match the equivalent fractions.

$\dfrac{2}{8}$

$\dfrac{8}{12}$

$\dfrac{1}{4}$

$\dfrac{1}{2}$

$\dfrac{2}{3}$

$\dfrac{3}{12}$

$\dfrac{3}{6}$

$\dfrac{1}{4}$

Match the equivalent fractions.

$$\frac{2}{8} \qquad\qquad \frac{8}{12}$$

$$\frac{1}{4} \qquad\qquad \frac{1}{2}$$

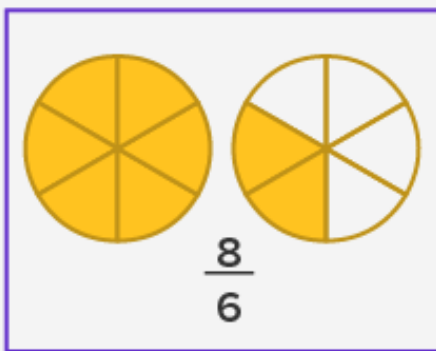$$\frac{2}{3} \qquad\qquad \frac{3}{12}$$

$$\frac{3}{6} \qquad\qquad \frac{1}{4}$$

Y4

Improper Fractions

Numerator is equal or greater than the denominator

$$\frac{3}{2} , \frac{7}{4} , \frac{6}{5} , \frac{15}{11} , \frac{10}{10}$$

$$\frac{8}{6}$$

What is an improper fraction??????
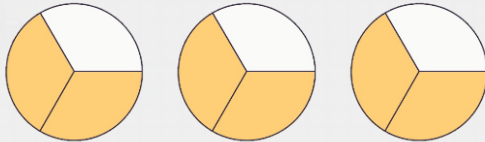
How can we match these?

The top number in a fraction.

Shows how many parts we have.

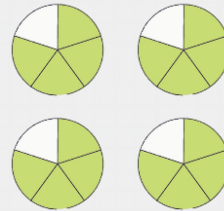(The bottom number is the Denominator and shows how many equal parts the item is divided into.)

$$\frac{3}{4} \quad \leftarrow \text{Numerator}$$
$$\quad \leftarrow \text{Denominator}$$

A

B

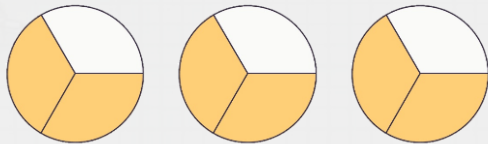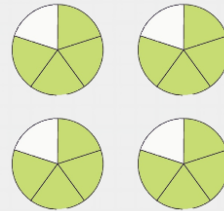**C**

$$\frac{16}{5}$$

$$\frac{12}{8}$$

$$\frac{6}{3}$$

We use the steps that we learnt in lesson 1.

Match the picture to the improper fraction.
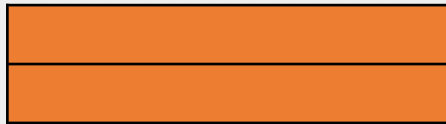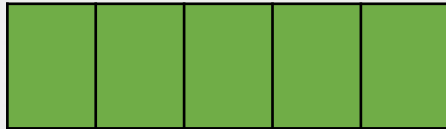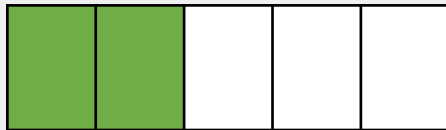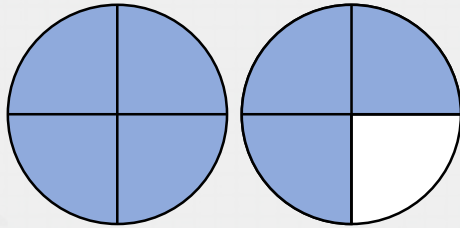

A   B   C

$$\frac{16}{5}$$ $$\frac{12}{8}$$ $$\frac{6}{3}$$

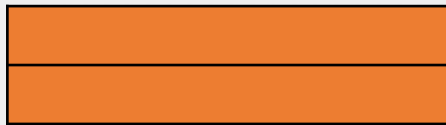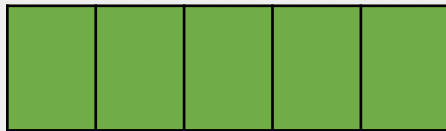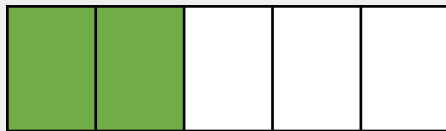# Match the image to the correct shaded fraction.
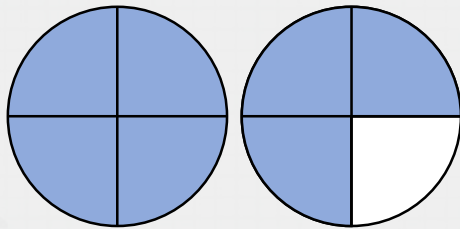

$$\frac{7}{5}$$

$$\frac{4}{2}$$

$$1\frac{3}{4}$$

Match the image to the correct shaded fraction.
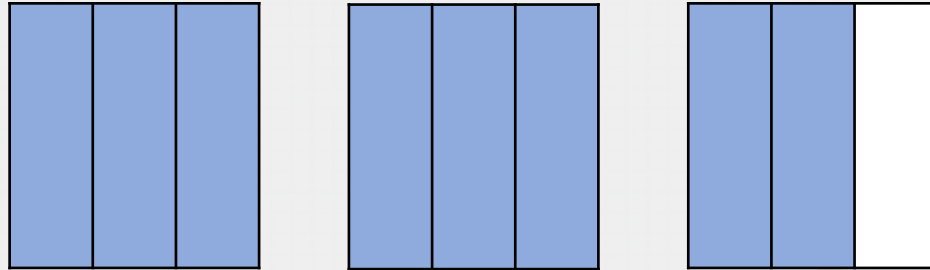
$$\frac{7}{5}$$

$$\frac{4}{2}$$

$$1\frac{3}{4}$$

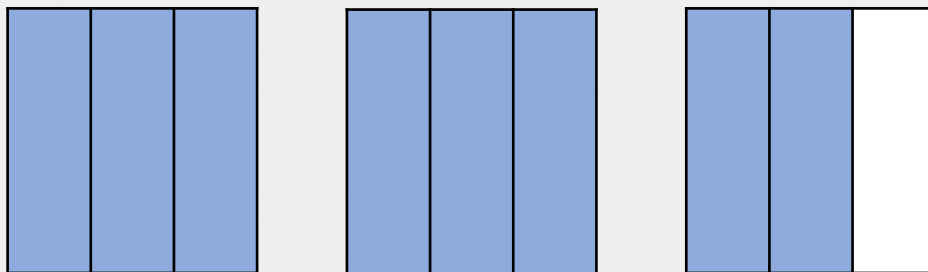**True or false? The following diagram represents two wholes and one third.**

True or false? The following diagram represents two wholes and one third.

False, it shows 2 wholes and $\frac{2}{3}$.

Show these improper fractions as a diagram and write as a mixed number.

a. $\dfrac{7}{4}$
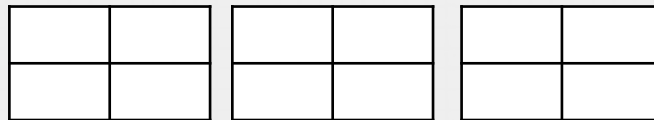
b. $\dfrac{11}{3}$
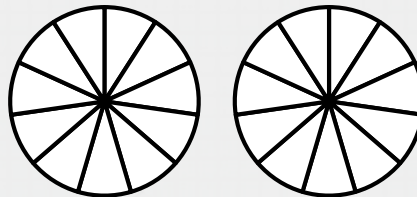
c. $\dfrac{14}{11}$

Show these improper fractions as a diagram and write as a mixed number.

a. $\dfrac{7}{4}$ $1\dfrac{3}{4}$

b. $\dfrac{11}{3}$ $3\dfrac{2}{3}$

c. $\dfrac{14}{11}$ $1\dfrac{3}{11}$
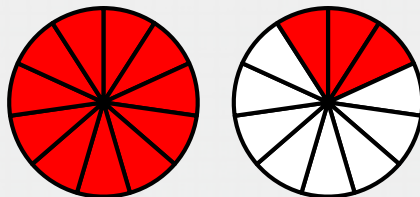
Using the diagrams we practised in the last slide.

Convert these improper fractions into mixed numbers.
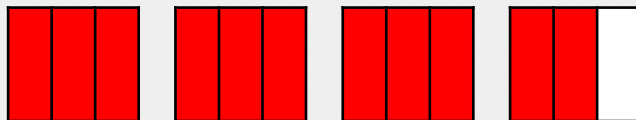
a. $\dfrac{14}{8}$ b. $\dfrac{19}{12}$ c. $\dfrac{17}{5}$ d. $\dfrac{23}{7}$

Y5

Convert these improper fractions into mixed numbers.

a. $\dfrac{14}{8}$ b. $\dfrac{19}{12}$ c. $\dfrac{17}{5}$ d. $\dfrac{23}{7}$

a. $1\dfrac{6}{8}$ b. $1\dfrac{7}{12}$ c. $3\dfrac{2}{5}$ d. $3\dfrac{2}{7}$

$1\dfrac{3}{4}$

Y5

Which answer matches the diagram?

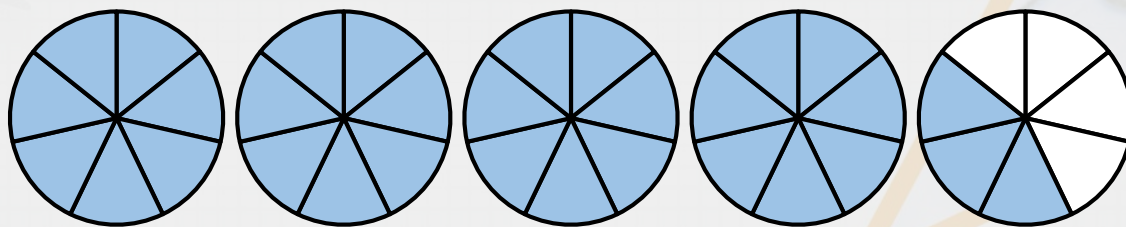a. $\dfrac{28}{7}$ b. $\dfrac{12}{7}$ c. $\dfrac{31}{7}$ d. $\dfrac{20}{7}$

Which answer matches the diagram?
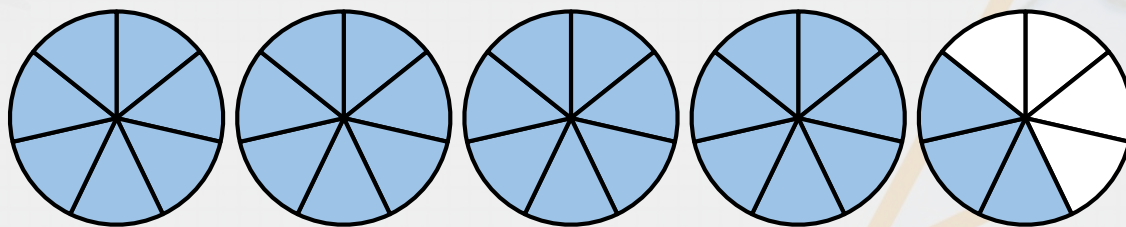
a. $\dfrac{28}{7}$ b. $\dfrac{12}{7}$ c. $\dfrac{31}{7}$ d. $\dfrac{20}{7}$

Find and correct the mistakes. Explain your answer.

a. $\dfrac{19}{9}$ $\boxed{=}$ $2\dfrac{1}{9}$

b. $\dfrac{24}{7}$ $\boxed{=}$ $3\dfrac{4}{7}$

c. $\dfrac{31}{8}$ $\boxed{=}$ $3\dfrac{8}{7}$

d. $\dfrac{24}{10}$ $\boxed{=}$ $2\dfrac{4}{10}$

Y5

Find and correct the mistakes. Explain your answer.

a. $\dfrac{19}{9}$ $\boxed{=}$ $2\dfrac{1}{9}$

b. $\dfrac{24}{7}$ $\boxed{=}$ $3\dfrac{3}{7}$

c. $\dfrac{8}{31}$ $\boxed{=}$ $3\dfrac{7}{8}$

d. $\dfrac{24}{10}$ $\boxed{=}$ $2\dfrac{4}{10}$

B – the numerator should be 3.
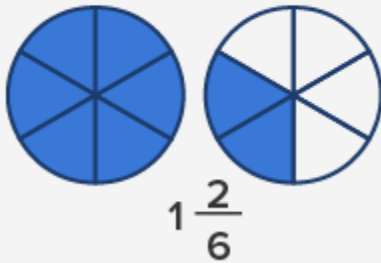C – the numerator and denominator have been mixed up.

Y5

What is an improper fraction??????

Mixed Fractions

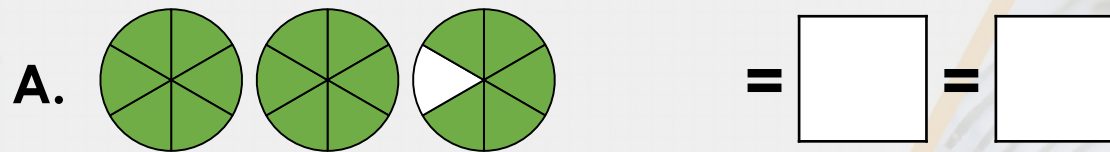Consists of a whole number and a proper fraction

$1\frac{1}{2}$, $2\frac{3}{4}$, $5\frac{5}{6}$,

$1\frac{2}{6}$

What is an Mixed number fraction??????

It shows you easily how many wholes are in the fraction.

Show each image as a mixed number fraction and an improper fraction.

A. = □ = □

Step 1: Lets find the denominator by counting how many sections each circle has been broken into.
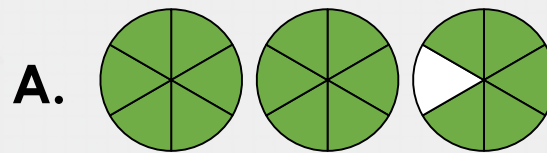
Step 2: Then count how many whole numbers/ shapes there are.

Step 3: Count how many are shaded in the last circle (Not a whole)
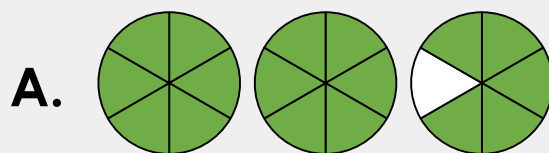
Step 4: Write your mixed number.

Step 5: Convert to an improper fraction.
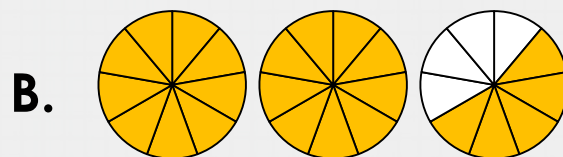
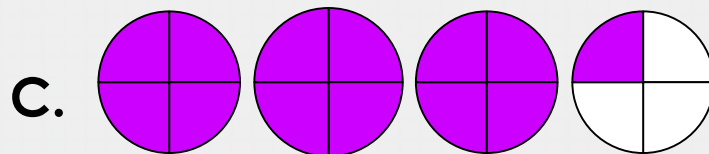# Did you get the same answer as me????

A. $= \boxed{2\frac{5}{6}} = \boxed{\frac{17}{6}}$

Now try B and C- using the same steps.

A. = ☐ = ☐

B. = ☐ = ☐

C. = ☐ = ☐

Were you correct?

A. $= 2\frac{5}{6} = \frac{17}{6}$

B. $= 2\frac{5}{9} = \frac{23}{9}$

C. $= 3\frac{1}{4} = \frac{13}{4}$
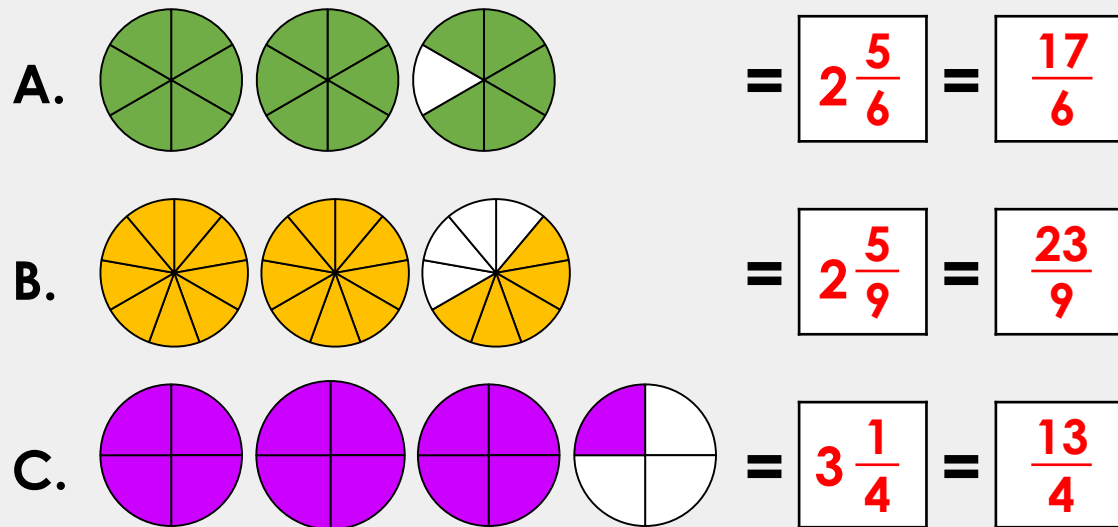
True or false? Show your working.

$$3 \frac{4}{5} = \frac{12}{5}$$

Let's use our multiplication skills.

Step 1: Start by multiplying the whole number by the denominator.

$\quad\quad$ 3 x 5 = 15.

Step 2: Add your answer to the numerator.

$\quad\quad$ 15+ 4 = 19

Step 3: Write this as your new numerator (the denominator doesn't change). Then tell me True or false.

True or false? Show your working.

$$3\frac{4}{5} = \frac{12}{5}$$

False

$$3\frac{4}{5} = \frac{19}{5}$$

Y5

Now practise this skill with these true or false questions.
<u>Don't forget the steps</u>

1

$1\frac{4}{5} = \frac{8}{5}$　　$\frac{12}{5} = 2\frac{2}{5}$　　$2\frac{2}{7} = \frac{17}{7}$　　$\frac{19}{5} = 3\frac{3}{5}$　　$4\frac{1}{2} = \frac{9}{2}$

$\frac{14}{3} = 4\frac{2}{3}$　　$5\frac{1}{4} = \frac{21}{4}$　　$\frac{19}{3} = 6\frac{2}{3}$　　$4\frac{2}{3} = \frac{14}{3}$　　$\frac{29}{5} = 5\frac{4}{5}$

$5\frac{3}{7} = \frac{38}{7}$　　$\frac{27}{4} = 6\frac{2}{4}$　　$5\frac{5}{6} = \frac{34}{6}$　　$\frac{38}{5} = 7\frac{3}{5}$　　$5\frac{7}{8} = \frac{47}{8}$

$\frac{31}{4} = 7\frac{3}{4}$　　$4\frac{5}{7} = \frac{33}{7}$　　$\frac{32}{3} = 10\frac{2}{3}$　　$7\frac{6}{11} = \frac{84}{11}$　　$\frac{57}{10} = 5\frac{7}{10}$

$5\frac{3}{4} = \frac{26}{4}$　　$\frac{44}{12} = 3\frac{7}{12}$　　$6\frac{2}{11} = \frac{68}{11}$　　$\frac{61}{9} = 6\frac{7}{9}$　　$6\frac{4}{5} = \frac{33}{5}$

FINISH!

Y5

Did you find the correct route???