Varied Fluency
Step 2: Improper Fractions to Mixed Numbers

National Curriculum Objectives:

Mathematics Year 5: (5F2a) Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, 2/5 + 4/5 = 6/5 = 1 1/5]

Differentiation:

Developing Questions to support converting improper fractions to mixed numbers. Includes halves, thirds, quarters, fifths and tenths. Includes pictorial representation.

Expected Questions to support converting improper fractions to mixed numbers. Includes fractions up to twelfths. Includes pictorial representation.

Greater Depth Questions to support converting improper fractions to mixed numbers. Includes incomplete pictorial representation.
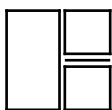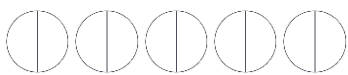
More Year 5 Fractions resources.

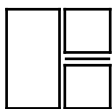## Did you like this resource? Don't forget to review it on our website.

1a. Show these improper fractions as a diagram and a mixed number.

A. $\frac{9}{2}$

B. $\frac{14}{10}$

C. $\frac{8}{5}$
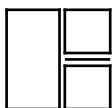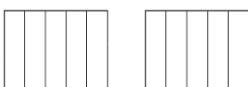
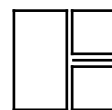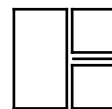**1b.** Show these improper fractions as a diagram and a mixed number.
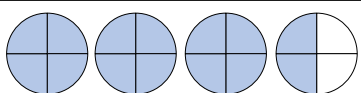
A. $\frac{8}{3}$
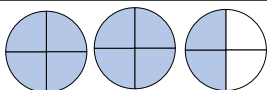
B. $\frac{7}{2}$

C. $\frac{13}{5}$

VF

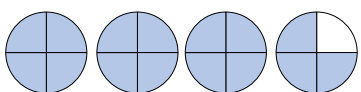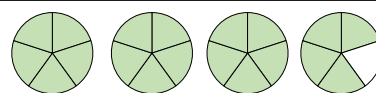**2a.** Which diagram matches the improper fraction?

$\frac{15}{4}$

A.

B.

C.

VF

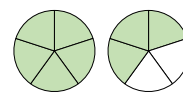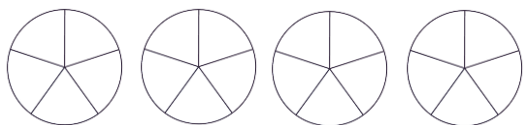**2b.** Which diagram matches the improper fraction?

$\frac{14}{5}$

A.

B.

C.

VF

3a. Amy has cooked 4 garlic breads to share with her friends.

Each garlic bread is cut into 5 equal pieces. They eat 19 pieces.

How much garlic bread has been eaten?

Give your answer as a mixed number.

VF

3b. David has baked 5 cakes to share with his friends.

Each cake is cut into 3 equal pieces. They eat 13 pieces.

How much cake has been eaten?
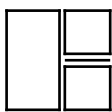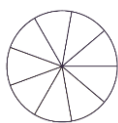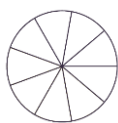
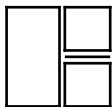Give your answer as a mixed number.

VF

classroomsecrets.co.uk

4a. Show these improper fractions as a diagram and a mixed number.

A. $\frac{11}{9}$

B. $\frac{9}{4}$

C. $\frac{6}{5}$

4b. Show these improper fractions as a diagram and a mixed number.

A. $\frac{10}{6}$
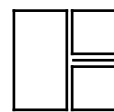
B. $\frac{11}{7}$
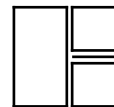
C. $\frac{14}{4}$

5a. Which diagram matches the improper fraction?

$\frac{24}{9}$

A.

B.

C.
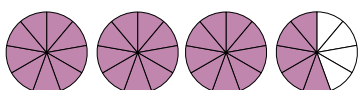
5b. Which diagram matches the improper fraction?

$\frac{34}{11}$

A.

B.

C.
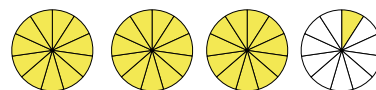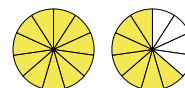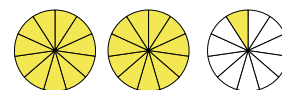
6a. Sally has cooked 4 pizzas to share with her friends.
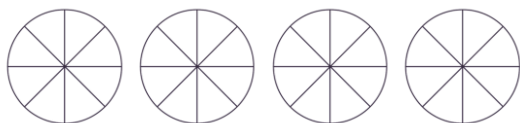
Each pizza is cut into 8 equal pieces. They eat 26 pieces.

How much pizza has been eaten?

Give your answer as a mixed number.

6b. Paul has baked 6 rocky road cakes to share with his friends.

Each cake has been cut into 12 equal pieces. They eat 67 pieces.

How much rocky road has been eaten?

Give your answer as a mixed number.

classroomsecrets.co.uk

Varied Fluency – Improper Fractions to Mixed Numbers – Year 5 Expected

Improper Fractions to Mixed Numbers

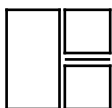**7a.** Show these improper fractions as a diagram and a mixed number.
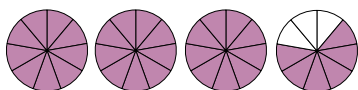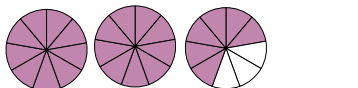
A. $\frac{14}{4}$

B. $\frac{29}{6}$

C. $\frac{8}{3}$

GD

VF
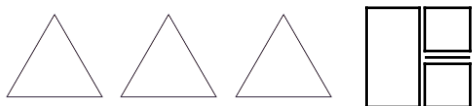
7b. Show these improper fractions as a diagram and a mixed number.

A. $\frac{18}{8}$

B. $\frac{11}{4}$

C. $\frac{22}{6}$

GD
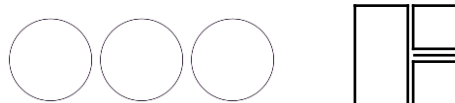
VF

8a. Complete the diagram to match the improper fraction.

$\frac{14}{6}$

GD
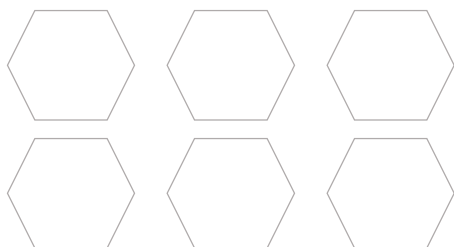
VF

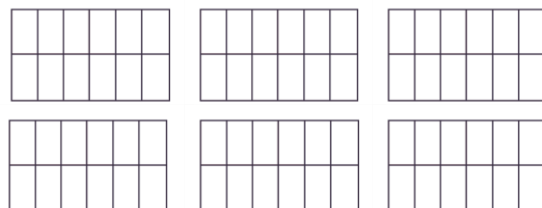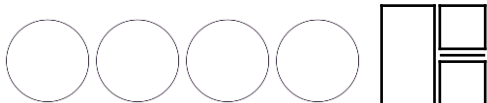**8b.** Complete the diagram to match the improper fraction.

$\frac{34}{8}$

GD
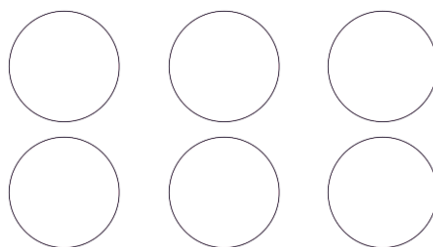
VF

9a. Kasia has 3 tray bakes to share with her friends.

Each tray bake is cut into 12 equal pieces. They eat 34 pieces.

How much tray bake has been eaten?

Give your answer as a mixed number.

GD

VF

9b. Paul has baked 6 lemon meringue pies to share with his friends.

Each pie has been cut equally into 8 pieces. They eat 43 pieces.

How much pie has been eaten?

Give your answer as a mixed number.

GD

VF

classroomsecrets.co.uk

Varied Fluency – Improper Fractions to Mixed Numbers – Year 5 Greater Depth

Developing

1a. A. 9 parts shaded = $4\frac{1}{2}$

B. 14 parts shaded = $1\frac{4}{10}$

C. 8 parts shaded = $1\frac{3}{5}$

2a. C

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

Developing

1b. A. 8 parts shaded = $2\frac{2}{3}$

B. 7 parts shaded = $3\frac{1}{2}$

C. 13 parts shaded = $2\frac{3}{5}$

2b. B

3b. $\frac{13}{3} = 4\frac{1}{3}$
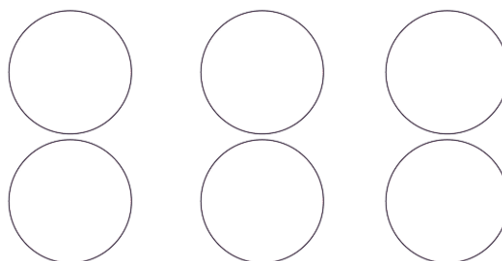
Expected

4a. A. 10 parts shaded = $1\frac{2}{9}$

B. 9 parts shaded = $2\frac{1}{4}$

C. 6 parts shaded = $1\frac{1}{5}$

5a. B

6a. $\frac{26}{8} = 3\frac{2}{8}$

Expected

4b. A. 10 parts shaded = $1\frac{4}{6}$

B. 11 parts shaded = $1\frac{4}{7}$

C. 14 parts shaded = $3\frac{2}{4}$

5b. A

6b. $\frac{67}{12} = 5\frac{7}{12}$

Greater Depth

7a. A. $3\frac{2}{4}$; **B.** $4\frac{5}{6}$; **C.** $2\frac{2}{3}$

8a. 3 hexagons divided into 6 with 2 whole shapes and $\frac{2}{6}$ **shaded in.**

9a. $\frac{34}{12} = 2\frac{10}{12}$

Greater Depth

7b. A. $2\frac{2}{8}$; **B.** $2\frac{3}{4}$; **C.** $3\frac{4}{6}$

8b. 5 circles divided into 8 with 4 whole shapes and $\frac{2}{8}$ **shaded in.**

9b. $\frac{43}{8} = 5\frac{3}{8}$

classroomsecrets.co.uk
Varied Fluency– Improper Fractions to Mixed Numbers **ANSWERS**