Chal-
lenge

Week Commencing 3–
11 .5. 20

When converting improper fractions to mixed numbers, it is important to look at the denominator to work out how many parts make up a whole. Eg) 3 at the bottom means three pieces make 1 whole.

Challenge 1

Write the following improper fractions as mixed numbers.

a) $\frac{22}{3}$ = _____

b) $\frac{5}{2}$ = _____

c) $\frac{21}{6}$ = _____

d) $\frac{34}{10}$ = _____

e) $\frac{31}{4}$ = _____

f) $\frac{14}{5}$ = _____

g) $\frac{16}{3}$ = _____

h) $\frac{17}{8}$ = _____

i) $\frac{22}{9}$ = _____

j) $\frac{27}{12}$ = _____

k) $\frac{23}{10}$ = _____

l) $\frac{19}{4}$ = _____

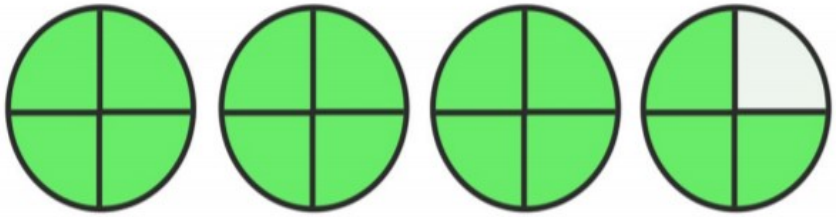
m) $\frac{19}{7}$ = _____

n) $\frac{21}{5}$ = _____

o) $\frac{30}{6}$ = _____

Challenge 2

3) Write the improper fractions and mixed numbers represented by the shapes below.

	Improper Fraction		Mixed Number
a)	_____		_____

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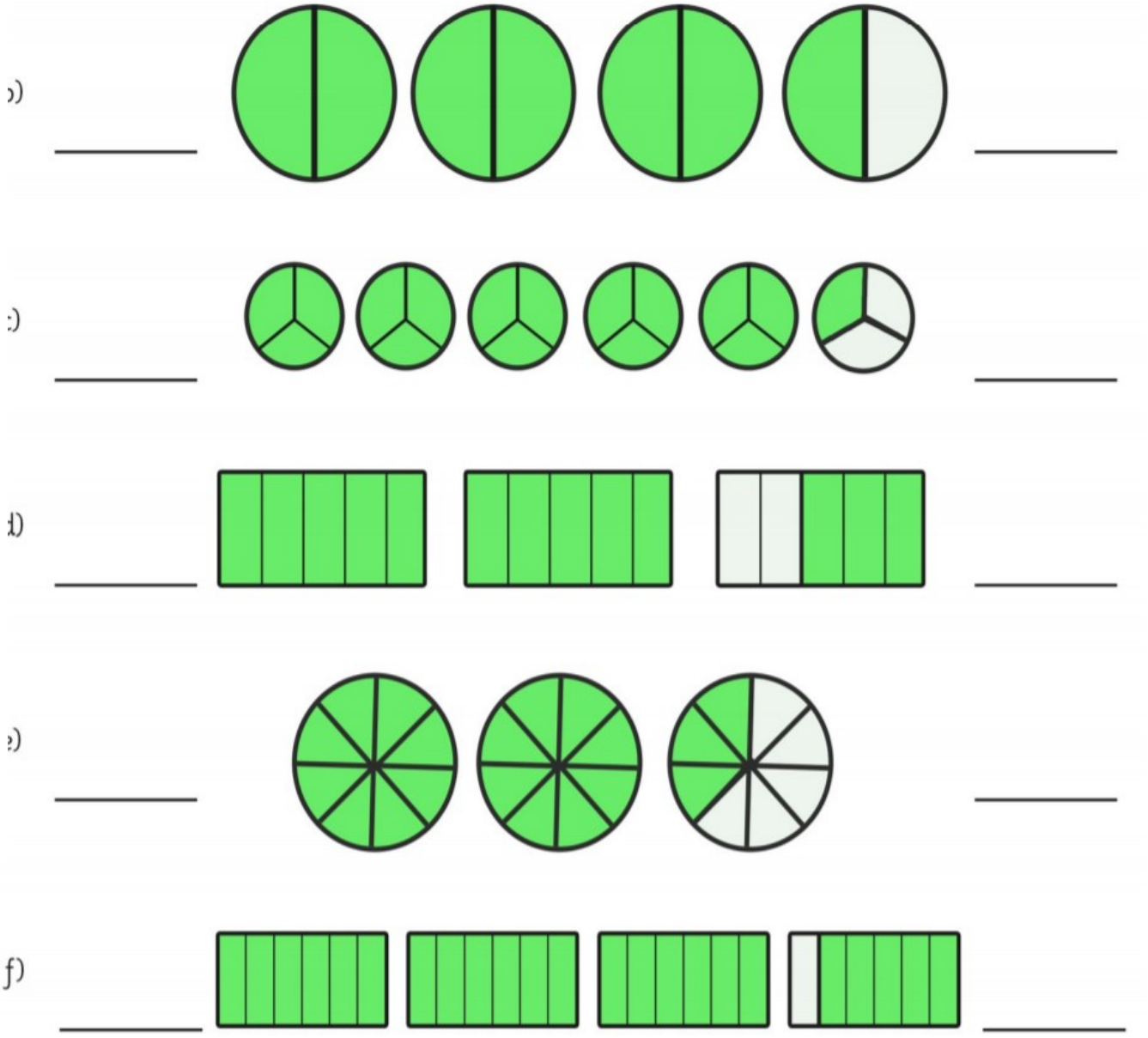
Remember the improper fraction is the total number of shaded pieces as numerator over the amount of parts in 1 whole. The numerator will therefore be bigger than the denominator in an improper fraction but not in a mixed number.

Challenge 2



REASONING

What could be the values of A and B be? Find all the possibilities.

$$\frac{A}{4} = 2\frac{B}{4}$$

Timmy has converted some mixed numbers into improper fractions.

Can you spot the mistakes he has made? Explain Timmy's mistakes and work out the correct answers.

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

$\frac{11}{5} = 10\frac{1}{5}$

$\frac{17}{4} = 3\frac{5}{4}$