

### Checking

- The small bucket is  $\frac{1}{5}$  the size of a different large bucket. How many small buckets would the zookeeper need to hold as many crickets as  $2\frac{3}{5}$  of these large buckets? Use centimetre cubes and a number line to help you. Use an improper fraction in your solution.
- Represent each mixed number as an improper fraction. Use centimetre cubes and a number line.

a)  $2\frac{1}{3}$

b)  $3\frac{4}{5}$

### Practising

- Use a model or a diagram to show that each equation is true.

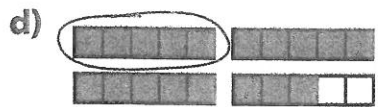
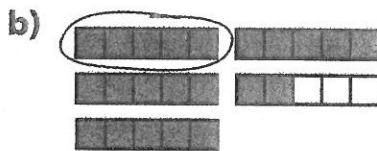
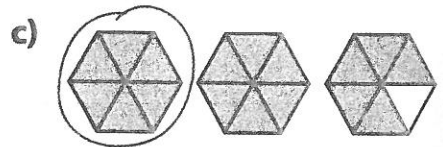
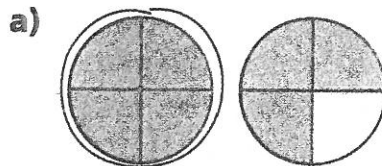
a)  $\frac{6}{3} = 2$

c)  $\frac{13}{3} = 4\frac{1}{3}$

b)  $\frac{7}{3} = 2\frac{1}{3}$

d)  $\frac{4}{2} = 2$

- Write a mixed number and an improper fraction to describe the coloured part in each picture. One whole is circled in each picture.



- Write each mixed number as an improper fraction.

a)  $1\frac{5}{8}$

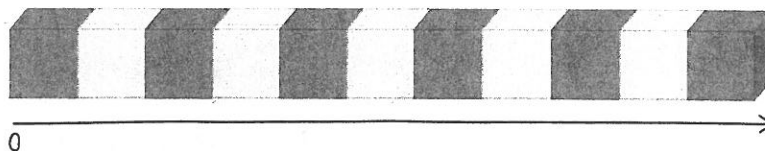
b)  $2\frac{3}{4}$

c)  $5\frac{1}{6}$

d)  $3\frac{2}{7}$

- Water stations are set up every fifth of a kilometre for a race. The last station is at the  $4\frac{4}{5}$  km mark. How many stations are there?

7. a) Represent  $3\frac{2}{3}$  and  $2\frac{1}{5}$  as improper fractions. Use a model or a diagram.  
 b) Explain why the two improper fractions have the same numerators but different denominators.
8. Alexis volunteers at a seniors' centre for  $2\frac{1}{2}$  h every Saturday. She spends  $\frac{1}{2}$  h visiting each senior. How many seniors does she visit?
9. There are  $3\frac{1}{12}$  dozen eggs in Logan's fridge. How does writing  $3\frac{1}{12}$  as an improper fraction tell you the number of eggs he has?
10. Tara used 11 cubes along a number line to model an improper fraction.



For each situation below, write the improper fraction and mixed number that can be modelled by 11 linking cubes. Explain your thinking.

- a) Three cubes represent one whole.  
 b) Two cubes represent one whole.  
 c) Eight cubes represent one whole.
11. Shaun explained why  $3\frac{2}{6} = \frac{20}{6}$ .  
 a) Use a model or a diagram to show that Shaun's thinking makes sense.  
 b) How can you use Shaun's strategy to figure out the improper fraction that is equivalent to  $2\frac{7}{8}$ ?
12. Suppose you want to write a mixed number of the form  $3\frac{m}{10}$  as an improper fraction. What could the numerator of the improper fraction be? Explain.
13. How do you know that changing a mixed number to a fraction will result in an improper fraction? Use examples to help you explain.

3 groups of  
6 sixths make  
18 sixths.  
2 more sixths  
make 20 sixths.

