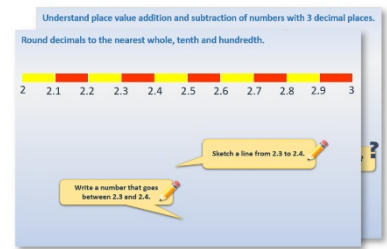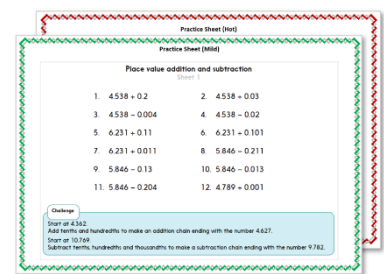# Week 10, Day 1
Count on in fraction steps

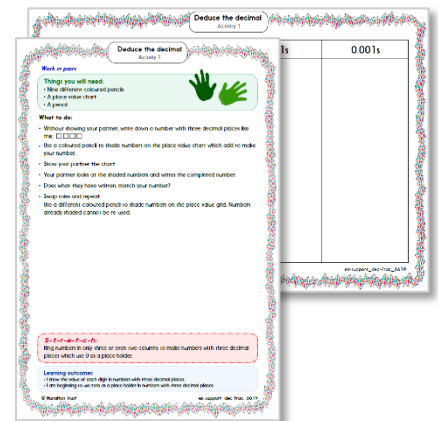**Each day covers one maths topic. It should take you about 1 hour or just a little more.**

1. Start by reading through the **Learning Reminders**.
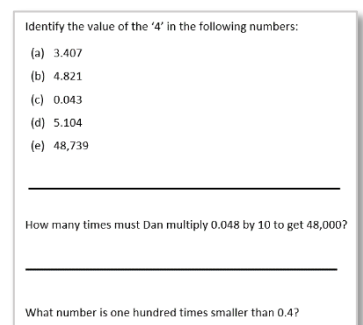   They come from our *PowerPoint* slides.

2. Tackle the questions on the **Practice Sheet**.
   There might be a choice of either Mild (easier) or
   Hot (harder)!
   Check the answers.

3. Finding it tricky? That's OK… have a go with a
   grown-up at **A Bit Stuck?**

4. Have I mastered the topic? A few questions to
   Check your understanding.
   Fold the page to hide the answers!

Learning Reminders

Count on in fraction steps.

$^1/_2$

1

$1^1/_2$

2

$2^1/_2$

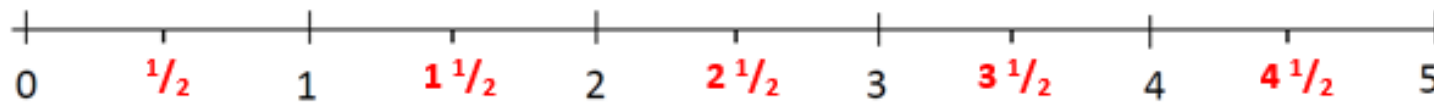How many circles are there in each row?

Half a circle is added each time.

Learning Reminders

Count on in fraction steps.

Let's start at the beginning.
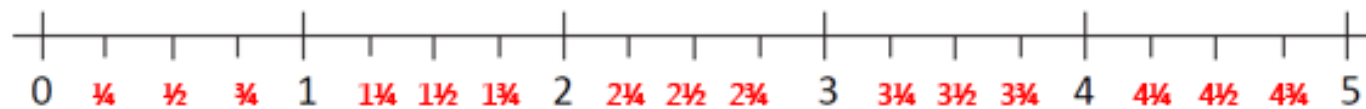
We are going to count on in **halves**.

Numbers that have a whole and a fraction part are called **mixed numbers**.

0   ½   1   1½   2   2½   3   3½   4   4½   5

Learning Reminders

Count on in fraction steps.

Let's start at the beginning.

Now we are going to count on in **quarters**.

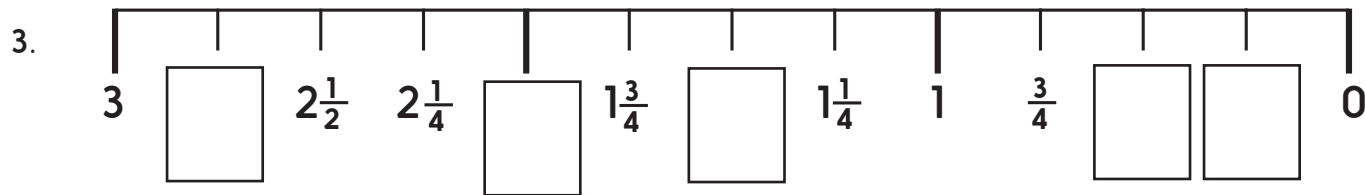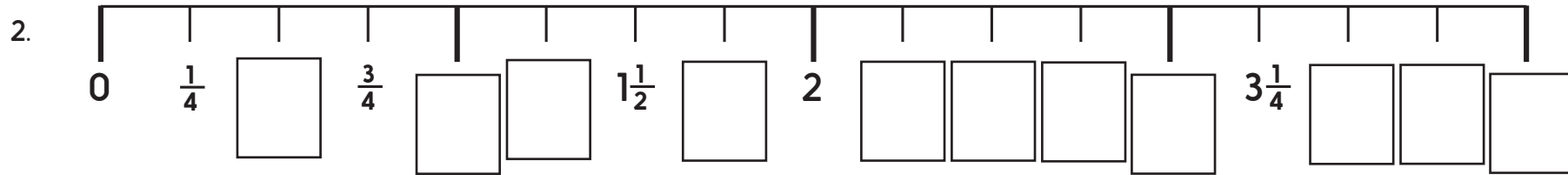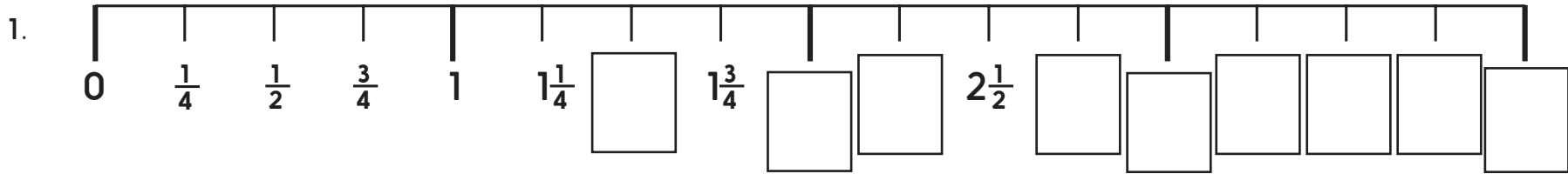| 0 | ¼ | ½ | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3¼ | 3½ | 3¾ | 4 | 4¼ | 4½ | 4¾ | 5 |

Two quarters are the same as one half so we write $\frac{1}{2}$ instead of $\frac{2}{4}$.

What comes next? Halves and quarters

Fill in the missing numbers.

1.

0 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ 1 $1\frac{1}{4}$ ☐ $1\frac{3}{4}$ ☐ ☐ $2\frac{1}{2}$ ☐ ☐ ☐ ☐ ☐ ☐

2.

0 $\frac{1}{4}$ ☐ $\frac{3}{4}$ ☐ ☐ $1\frac{1}{2}$ ☐ 2 ☐ ☐ ☐ $3\frac{1}{4}$ ☐ ☐ ☐

3.

3 ☐ $2\frac{1}{2}$ $2\frac{1}{4}$ ☐ $1\frac{3}{4}$ ☐ $1\frac{1}{4}$ 1 $\frac{3}{4}$ ☐ ☐ 0

What comes next? Halves and quarters

Fill in the missing numbers.

1.
0 $\frac{1}{4}$ [ ] $\frac{3}{4}$ [ ] [ ] $1\frac{1}{2}$ [ ] 2 [ ] [ ] [ ] [ ] $3\frac{1}{4}$ [ ] [ ] [ ] [ ] [ ] [ ] [ ]

2.
4 [ ] $3\frac{1}{2}$ $3\frac{1}{4}$ [ ] $2\frac{3}{4}$ [ ] [ ] 2 [ ] [ ] [ ] [ ] $\frac{3}{4}$ [ ] [ ] [ ]

3.
5 $5\frac{1}{4}$ [ ] $5\frac{3}{4}$ [ ] $6\frac{1}{4}$ [ ] [ ] [ ] [ ] $7\frac{1}{2}$ [ ] [ ] $8\frac{1}{4}$ [ ] $8\frac{3}{4}$ [ ] [ ] [ ] [ ] [ ]

What comes next? Halves and quarters

4.

7 ☐ ☐ $6\frac{1}{4}$ ☐ $5\frac{3}{4}$ ☐ $5\frac{1}{4}$ ☐ ☐ ☐ ☐ 4 ☐ ☐ $3\frac{1}{4}$ ☐ ☐ ☐ ☐

Challenge

34 $34\frac{1}{4}$ ☐ $34\frac{3}{4}$ ☐ $35\frac{1}{4}$ ☐ ☐ ☐ $36\frac{1}{2}$ ☐ ☐ ☐ $37\frac{3}{4}$ ☐ ☐ ☐ ☐

29 ☐ ☐ $28\frac{1}{4}$ ☐ $27\frac{3}{4}$ ☐ $27\frac{1}{4}$ ☐ ☐ ☐ 26 ☐ ☐ $25\frac{1}{4}$ ☐ ☐ ☐ ☐
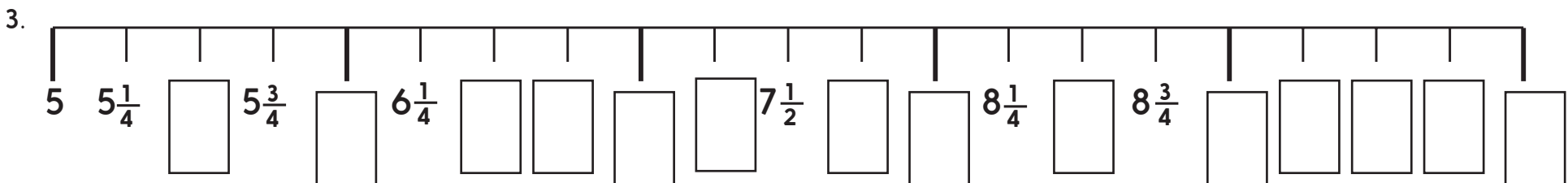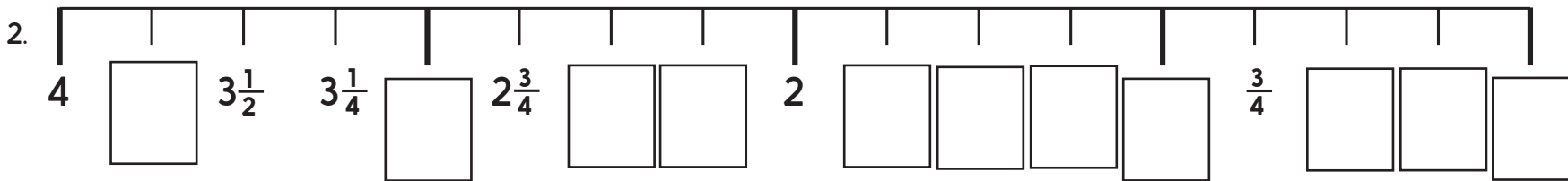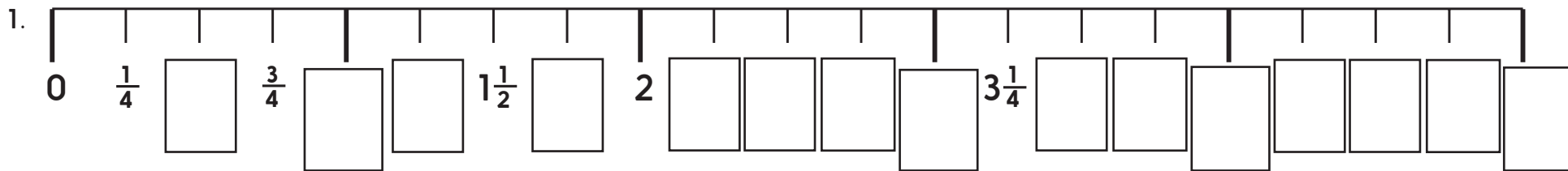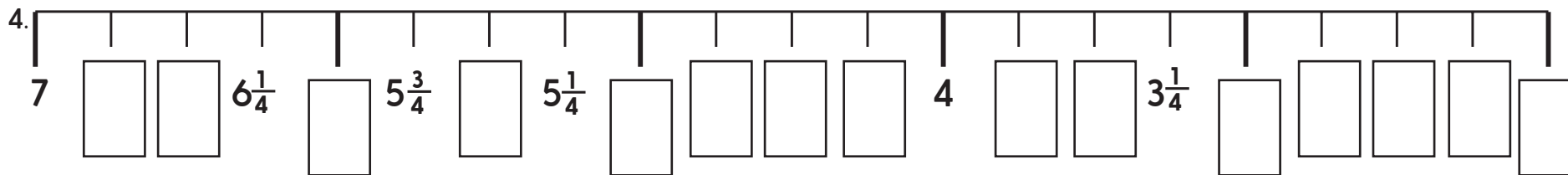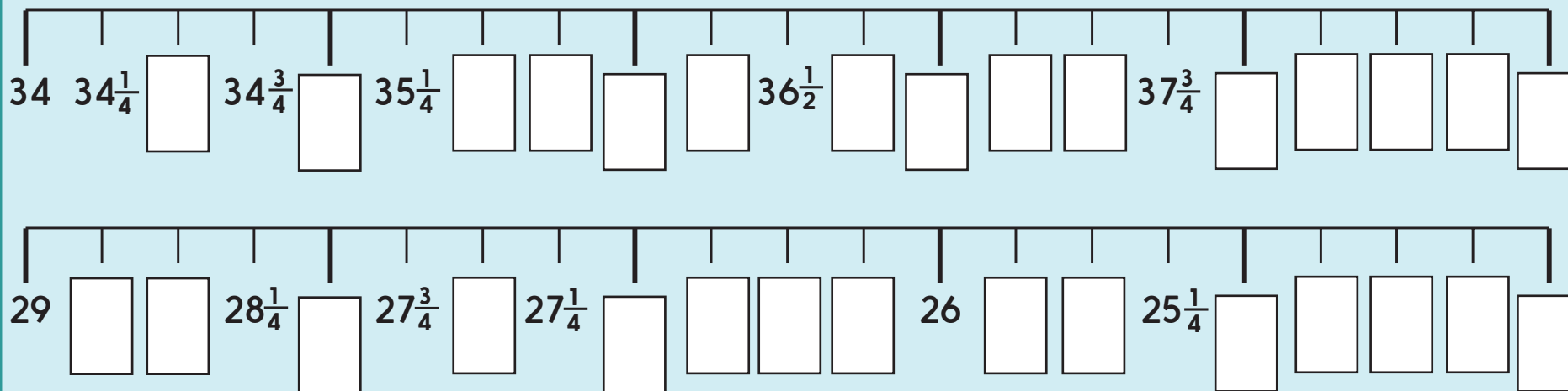
Practice Sheet Answers

Practice Sheet (Mild)

1. $0 \quad \frac{1}{4} \quad \frac{1}{2} \quad \frac{3}{4} \quad 1 \quad 1\frac{1}{4} \quad 1\frac{1}{2} \quad 1\frac{3}{4} \quad 2 \quad 2\frac{1}{4} \quad 2\frac{1}{2} \quad 2\frac{3}{4} \quad 3 \quad 3\frac{1}{4} \quad 3\frac{1}{2} \quad 3\frac{3}{4} \quad 4$

2. $0 \quad \frac{1}{4} \quad \frac{1}{2} \quad \frac{3}{4} \quad 1 \quad 1\frac{1}{4} \quad 1\frac{1}{2} \quad 1\frac{3}{4} \quad 2 \quad 2\frac{1}{4} \quad 2\frac{1}{2} \quad 2\frac{3}{4} \quad 3 \quad 3\frac{1}{4} \quad 3\frac{1}{2} \quad 3\frac{3}{4} \quad 4$

3. $3 \quad 2\frac{3}{4} \quad 2\frac{1}{2} \quad 2\frac{1}{4} \quad 2 \quad 1\frac{3}{4} \quad 1\frac{1}{2} \quad 1\frac{1}{4} \quad 1 \quad \frac{3}{4} \quad \frac{1}{2} \quad \frac{1}{4} \quad 0$

Practice Sheet (Hot)

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

2. $4 \quad 3\frac{3}{4} \quad 3\frac{1}{2} \quad 3\frac{1}{4} \quad 3 \quad 2\frac{3}{4} \quad 2\frac{1}{2} \quad 2\frac{1}{4} \quad 2 \quad 1\frac{3}{4} \quad 1\frac{1}{2} \quad 1\frac{1}{4} \quad 1 \quad \frac{3}{4} \quad \frac{1}{2} \quad \frac{1}{4} \quad 0$

3. $5 \quad 5\frac{1}{4} \quad 5\frac{1}{2} \quad 5\frac{3}{4} \quad 6 \quad 6\frac{1}{4} \quad 6\frac{1}{2} \quad 6\frac{3}{4} \quad 7 \quad 7\frac{1}{4} \quad 7\frac{1}{2} \quad 7\frac{3}{4} \quad 8 \quad 8\frac{1}{4} \quad 8\frac{1}{2} \quad 8\frac{3}{4} \quad 9$
$9\frac{1}{4} \quad 9\frac{1}{2} \quad 9\frac{3}{4} \quad 10$

4. $7 \quad 6\frac{3}{4} \quad 6\frac{1}{2} \quad 6\frac{1}{4} \quad 6 \quad 5\frac{3}{4} \quad 5\frac{1}{2} \quad 5\frac{1}{4} \quad 5 \quad 4\frac{3}{4} \quad 4\frac{1}{2} \quad 4\frac{1}{4} \quad 4 \quad 3\frac{3}{4} \quad 3\frac{1}{2} \quad 3\frac{1}{4}$
$3 \quad 2\frac{3}{4} \quad 2\frac{1}{2} \quad 2\frac{1}{4} \quad 2$

Challenge

5. $34 \quad 34\frac{1}{4} \quad 34\frac{1}{2} \quad 34\frac{3}{4} \quad 35 \quad 35\frac{1}{4} \quad 35\frac{1}{2} \quad 35\frac{3}{4} \quad 36 \quad 36\frac{1}{4} \quad 36\frac{1}{2} \quad 36\frac{3}{4}$
$37 \quad 37\frac{1}{4} \quad 37\frac{1}{2} \quad 37\frac{3}{4} \quad 38 \quad 38\frac{1}{4} \quad 38\frac{1}{2} \quad 38\frac{3}{4} \quad 39$

6. $29 \quad 28\frac{3}{4} \quad 28\frac{1}{2} \quad 28\frac{1}{4} \quad 28 \quad 27\frac{3}{4} \quad 27\frac{1}{2} \quad 27\frac{1}{4} \quad 27 \quad 26\frac{3}{4} \quad 26\frac{1}{2}$
$26\frac{1}{4} \quad 26 \quad 25\frac{3}{4} \quad 25\frac{1}{2} \quad 25\frac{1}{4} \quad 25 \quad 24\frac{3}{4} \quad 24\frac{1}{2} \quad 24\frac{1}{4} \quad 24$

Work in pairs
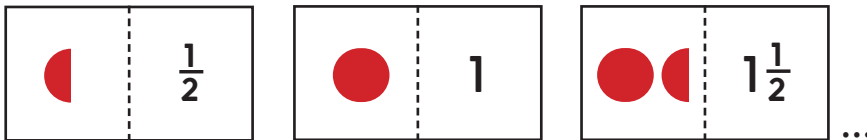
Things you will need:
• A set of 'Halves counting fractions cards'
  (see resources)
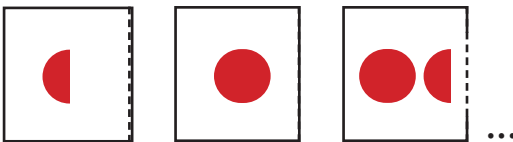• Scissors
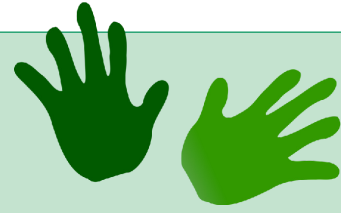
What to do:

Task one
• Cut up the counting fractions cards. Don't cut along the dotted lines!
• Mix the cards up.
• Put the cards back in order, smallest number first.

| ◖ ┊ $\frac{1}{2}$ | | ● ┊ 1 | | ●◖ ┊ $1\frac{1}{2}$ | ... |

Task two
• Mix the cards up.
• Fold the cards in half along the dotted lines.
• Place the cards so that the shapes are face up.
• Put the cards in order, smallest number first.

◖ ● ●◖ ...
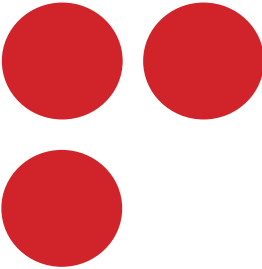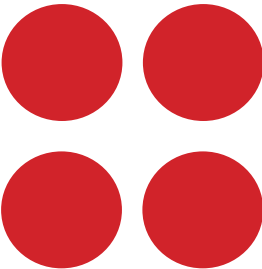
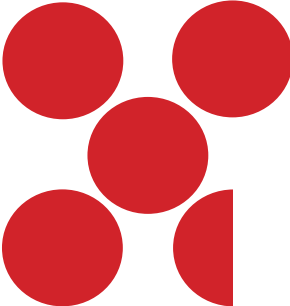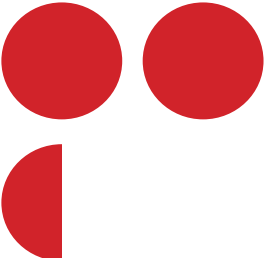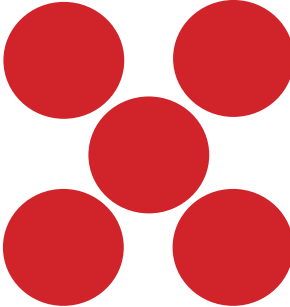**Task three**
• Mix the cards up again.
• Turn them over so you can't see the shapes.
• Put the cards in order, smallest number first.

$\frac{1}{2}$ 1 $1\frac{1}{2}$ ...

• Turn the cards over to check whether you were right!

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

Check your understanding:
Questions

Write the missing numbers in each sequence:

$2^1/_4$ $2^1/_2$ $2^3/_4$ ☐ ☐ ☐

$4^1/_2$ $4^1/_4$ 4 ☐ ☐ ☐

☐ ☐ $1^1/_2$ ☐ 2 $2^1/_4$

Fold here to hide answers:

Check your understanding:
Answers

Write the missing numbers in each sequence:

$2^1/_4$ $2^1/_2$ $2^3/_4$ 3 $3^1/_4$ $3^1/_2$

$4^1/_2$ $4^1/_4$ 4 $3^3/_4$ $3^1/_2$ $3^1/_4$

1 $1^1/_4$ $1^1/_2$ $1^3/_4$ 2 $2^1/_4$