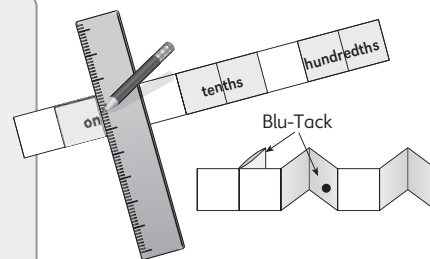# NA16 Place value to thousandths

Make a number expander to hundredths.
1. Cut out the number expander.
2. Rule along each fold line with a sharp pencil.
3. Roll two tiny balls of Blu-Tack.
4. Fold the number expander so that the place value names are closed.
   Use tiny balls of Blu-Tack to keep them closed.

Blu-Tack

1 10 cents is also written as $0.10. 10 cents is one tenth of a dollar. Complete the table below.
Use a number expander to help you.

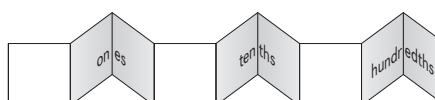| 10 cents 10 c | $0.10 | one tenth of a dollar | 0 ones 1 tenths 0 hundredths |
20 cents 20 c	$0.20	two tenths of a dollar	0 ones 2 tenths 0 hundredths
30 cents 30 c			ones tenths hundredths
40 cents 40 c			ones tenths hundredths
50 cents 50 c			ones tenths hundredths

2 5 cents is also written as $0.05. 5 cents is five hundredths of a dollar. Complete the table below.
Use a number expander to help you.

5 cents 5 c	$0.05	five hundredths of a dollar	0 ones 0 tenths 5 hundredths
15 cents 15 c	$0.15	fifteen hundredths of a dollar	0 ones 1 tenths 5 hundredths
25 cents 25 c	$0.25		ones tenths hundredths
35 cents 35 c			ones tenths hundredths
45 cents 45 c			ones tenths hundredths

3 You have $1.55. How much is this in cents? ☐ cents

Remember there are 100 cents in one dollar.
Write this on the number expander.

ones tenths hundredths

NA16 Place value to thousandths

1 To read the number 19.415 you should say:

a

or **b**

or **c**

2 What is the place value of the **3** in the following numbers?

a 91.**3**47

b 147.07**3**

c 5**3**6.85

d 875.1**3**9

e **3**.001

f **3**407.65

g 819.6**3**

h 0.18**3**

i **3**54.628

j 5147.**3**29

3 Use the fruit and vegetable masses on page 63 of your *iMaths 5 Student Book* to answer these questions.

a What is the place value of the **7** in the mass of:

blueberries?

onions?

kiwifruit?

b What is the place value of the **2** in the mass of:

snow peas?

blueberries?

c What is the place value of the **1** in the mass of:

snow peas?

apples?

potatoes?

plums?

4 Write each set of numbers from smallest to largest.

a 7.002   7.202   7.022   7.22   7.2

b 1.432   2.134   2.413   1.324   1.243

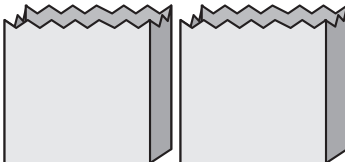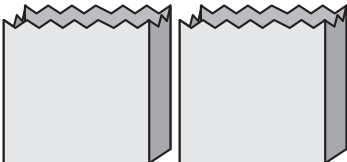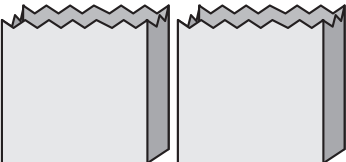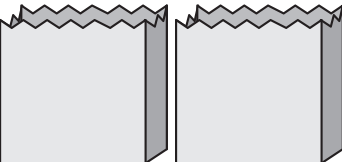**5** Place these numbers on the number line: 1.35, 0.725, 1.675, 0.4

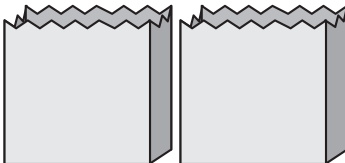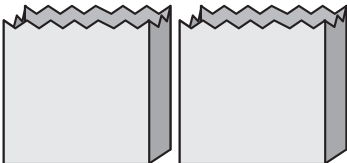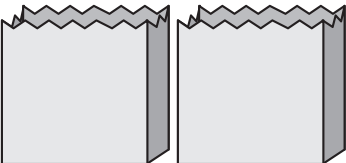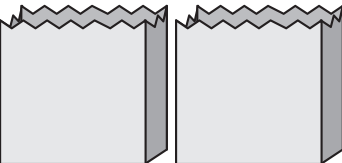0.200   0.600   1.000   1.400   1.800

NA16 Place value to thousandths

Use the fruit and vegetable masses on page 63 of your *iMaths 5 Student Book* to answer these questions.

1 a The greengrocer uses different capacity bags to package the fruit and vegetables.
In the table below place the fruit or vegetables in their correct bag. Remember to include the mass.

1 kg	2 kg	5 kg	10 kg

b What is the total mass of the fruit?

c If all the fruit is placed in a single bag, which bag would be needed?

d What is the total mass of the vegetables?

e If all the vegetables are placed in a single bag, which bag would be needed?

2 Draw a table showing the different combinations of fruit and vegetables that could be placed in the 1 kg bag, 2 kg bag, 5 kg bag and 10 kg bag. (Remember the total mass of fruit and vegetables must not exceed the carrying capacity of the bag.)