Year 4 Maths

⚡ Power Up

Pretend to throw a dart at each dart board to choose 2 numbers.

Dart board 1: 693, 878, 605

Dart board 2: 540, 493, 359
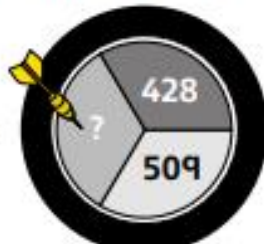
Add the numbers.

Now subtract the smaller number from the greater number.

Work out the missing number on the second dart board below.

Dart board 3: 681, 472, 536

+

Dart board 4: 428, ?, 509

= 879

I will rearrange the number sentence to work out the missing number.

Re-cap

What is a fraction? What do they look like?

What is the top part called?

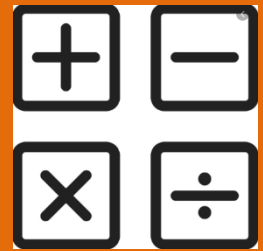What is the bottom part called?

Let's look at these together...

1 a) What fraction of the whole jigsaw is 1 piece?
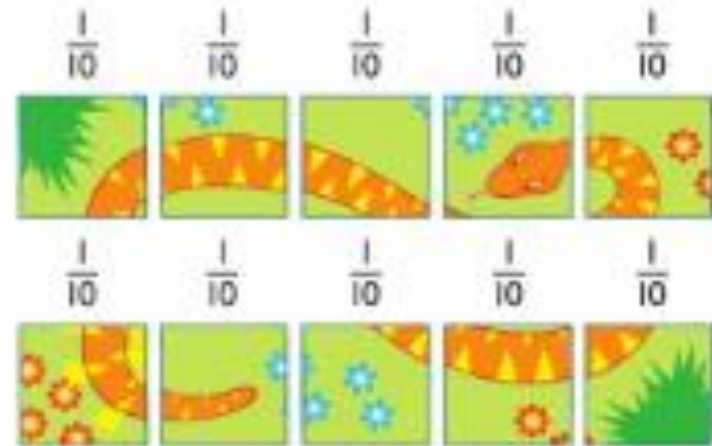
a) The jigsaw is split into 10 equal parts.

The denominator is 10.

One jigsaw piece is 1 part of the whole jigsaw.
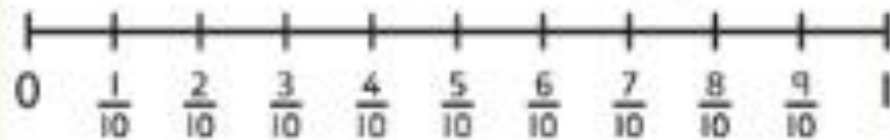
The numerator is 1.

1 piece is $\frac{1}{10}$ of the whole.

$\frac{1}{10}$ is written as **one-tenth**.

$\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$

$\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$

This number line goes up in $\frac{1}{10}$s.

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

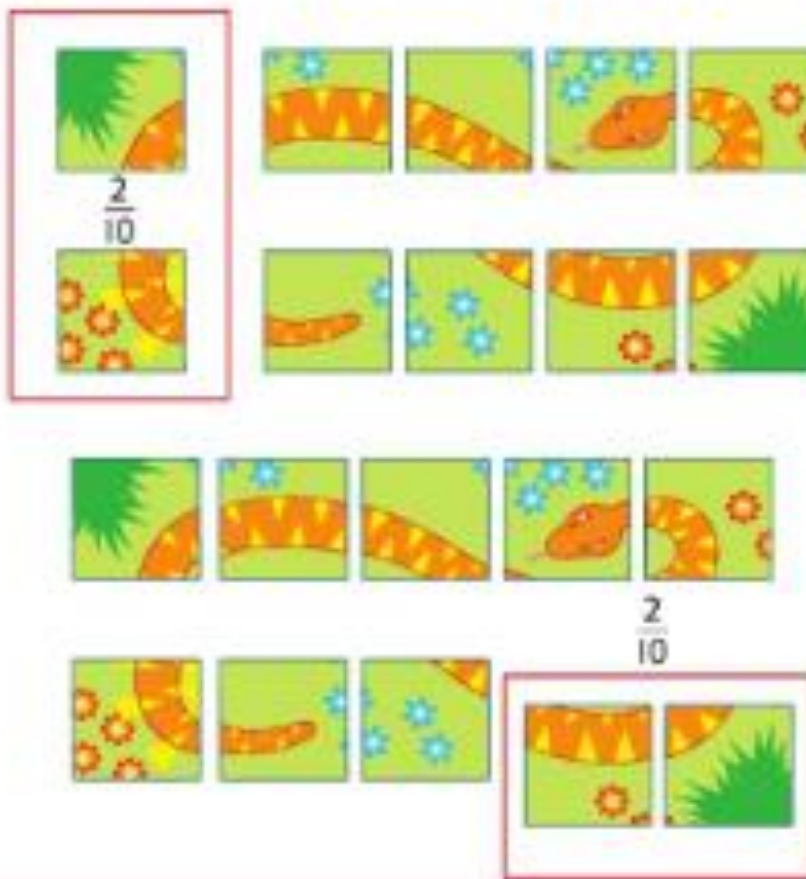b) Danny removes 2 pieces of the jigsaw. What fraction does he remove?

b) Danny removes 2 of the 10 pieces. This is $\frac{2}{10}$ or two-tenths of the whole.

There is more than one way to find $\frac{2}{10}$ of the whole.

$\frac{2}{10}$

All of the pieces of the jigsaw are the same size, so each piece is $\frac{1}{10}$ of the whole.

Taking any 2 pieces of the jigsaw will represent $\frac{2}{10}$ or two-tenths of the whole.

$\frac{2}{10}$

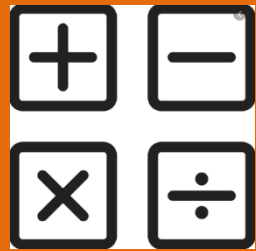So, the answer is the same no matter which 2 pieces Danny removes.

Lets look at this together:

a) How much apple will each child get?

Share

There are 10 bowls so there is not enough for everyone to have 1 apple each. Maybe I will split each apple into 10 equal pieces.

a) These 10 pieces can be shared equally between the 10 bowls. Each piece is $\frac{1}{10}$ of an apple.

If the other 3 apples are cut the same way, each bowl will have 4 pieces of apple.

Each piece is $\frac{1}{10}$ so there are $\frac{4}{10}$ in each bowl.

$$4 \div 10 = \frac{4}{10}$$
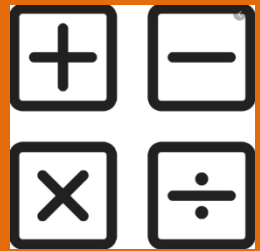
4 apples   10 bowls   fraction of an apple in each bowl

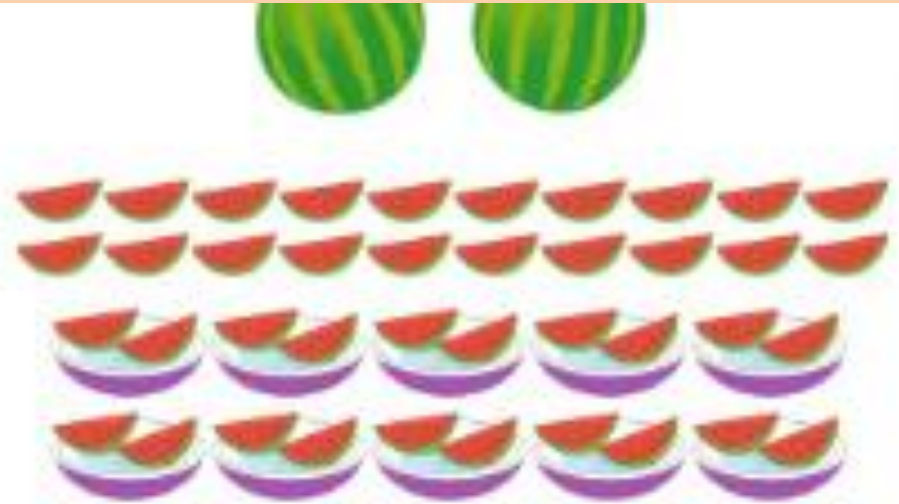Each child will get $\frac{4}{10}$ of an apple.

b) How much melon will each child get?

b) If each melon is also split into 10 pieces there will be 20 pieces altogether. 2 for each bowl.
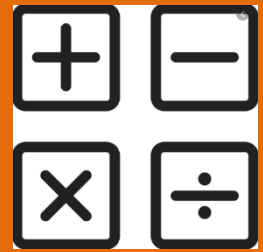
$$2 \div 10 = \frac{2}{10}$$

2 melons   10 bowls   fraction of a melon in each bowl

Each child will get $\frac{2}{10}$ of a melon.
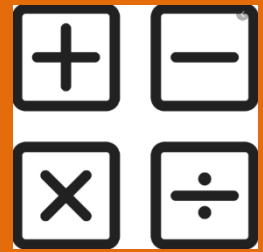
Year 4 Maths
LO: To recognise tenths

Success Criteria:

- Understand a fraction is parts of a whole

- The denominator = number of groups/objects/shape is split into

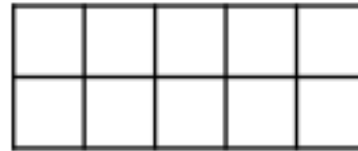- The numerator = number needed from that group

Fluency

If the frame represents 1 whole, what does each box represent?
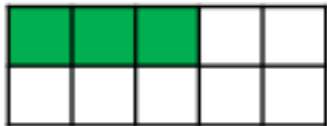
Use counters to represent:

- One tenth
- Two tenths
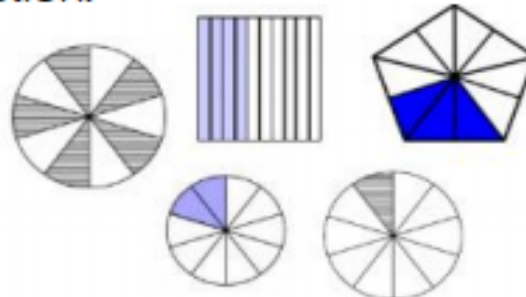- Three tenths
- One tenth less than eight tenths

Identify what fraction of each shape is shaded.

Give your answer in words and as a fraction.

e.g.

Three tenths $\frac{3}{10}$

Annie has 2 cakes. She wants to share them equally between 10 people. What fraction of the cakes will each person get?

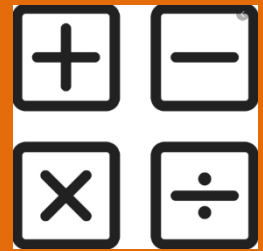There are _____ cakes.

They are shared equally between ___ people.

Each person has $\frac{\square}{\square}$ of the cake.

___ ÷ _____ = _____

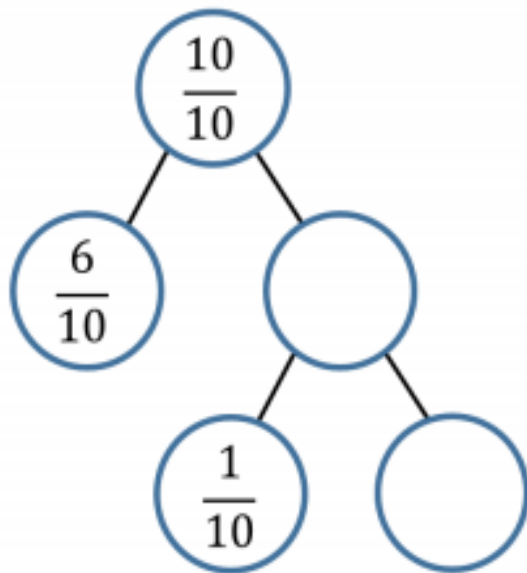What fraction would they get if Annie had 4 cakes?

Year 4 Maths
LO: To recognise tenths

Fill in the missing values.
Explain how you got your answers.

True or False?

Five tenths is $\frac{2}{10}$ smaller than 7 tenths.

Five tenths is $\frac{2}{10}$ larger than three tenths.
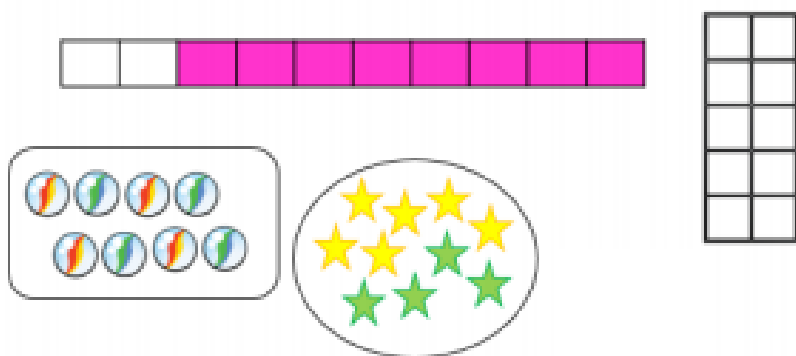
Do you agree?

Explain why.

Year 4 Maths
LO: To recognise tenths

Problem Solving

Odd One Out

Which is the odd one out?
Explain your answer.

Teddy is counting in tenths.

Seven tenths, eight tenths, nine tenths, ten tenths, one eleventh, two elevenths, three elevenths...

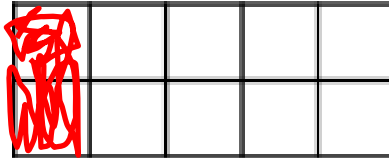Can you spot his mistake?

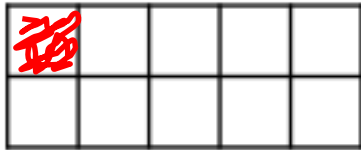# Year 4 Maths
LO: To recognise tenths

Answers

If the frame represents 1 whole, what does each box represent?
Use counters to represent:

- One tenth
- Two tenths
- Three tenths
- One tenth less than eight tenths

Identify what fraction of each shape is shaded. $\frac{4}{10}$
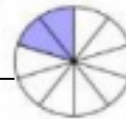Give your answer in words and as a fraction.
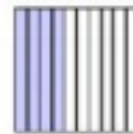
e.g.

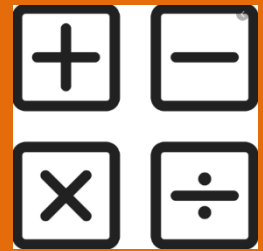Three tenths $\frac{3}{10}$

$\frac{5}{10}$

$\frac{2}{10}$

$\frac{3}{10}$

$\frac{1}{10}$

Year 4 Maths
LO: To recognise tenths

Answers

Annie has 2 cakes. She wants to share them equally between 10 people. What fraction of the cakes will each person get?

There are ___2___ cakes.

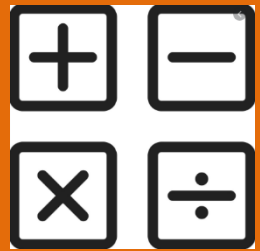They are shared equally between __10__ people.

Each person has $\frac{2}{10}$ of the cake.

__2__ ÷ __10__ = $\frac{2}{10}$

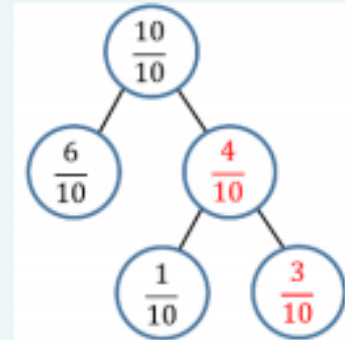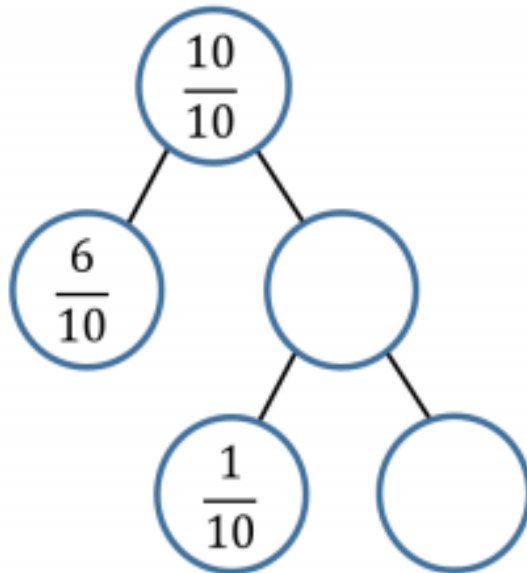What fraction would they get if Annie had 4 cakes? $\frac{4}{10}$

Year 4 Maths
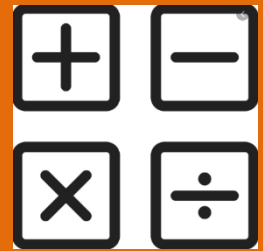# LO: To recognise tenths

Reasoning

Fill in the missing values.
Explain how you got your answers.

Children could use practical equipment to explain why and how, and relate back to the counting stick.

Reasoning

True or False?

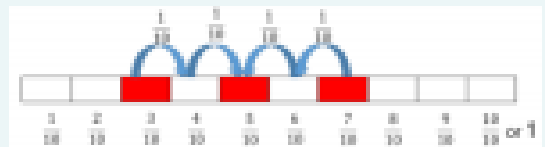Five tenths is $\frac{2}{10}$ smaller than 7 tenths.

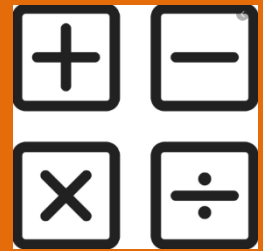Five tenths is $\frac{2}{10}$ larger than three tenths.

Do you agree?

Explain why.

This is correct. Children could show it using pictures, ten frames, number lines etc.
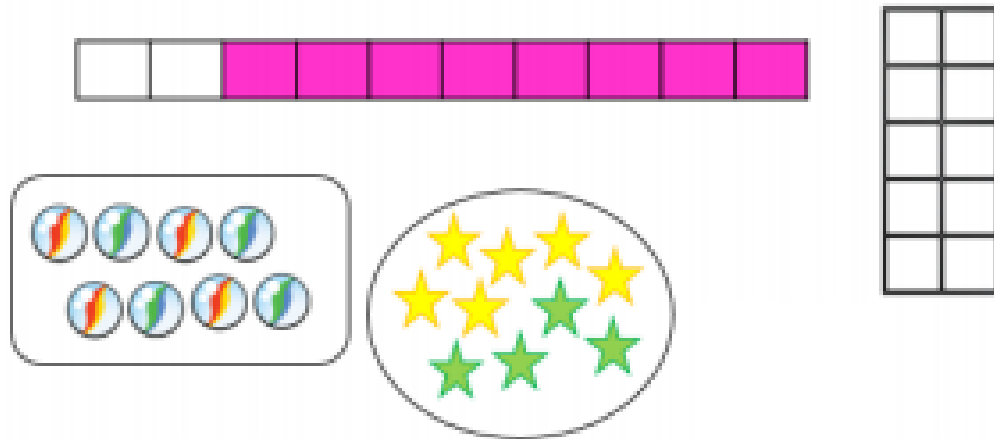For example:

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Problem Solving

Odd One Out
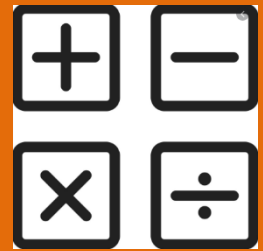
Which is the odd one out?
Explain your answer.

The marbles are the odd one out because they represent 8 or eighths. All of the other images have a whole which has been split into ten equal parts.

Year 4 Maths
LO: To recognise tenths

Problem Solving

Teddy is counting in tenths.

Seven tenths, eight tenths, nine tenths, ten tenths, one eleventh, two elevenths, three elevenths…

Can you spot his mistake?

Teddy thinks that after ten tenths you start counting in elevenths. He does not realise that ten tenths is the whole, and so the next number in the sequence after ten tenths is eleven tenths or one and one tenth.