To convert fractions to decimals - Questions

- **1.** Use place value counters and short division to show what each of these fractions is as a decimal:
 - **a.** $\frac{1}{4}$ =
 - **b.** $\frac{4}{5}$ =
 - **c.** $\frac{7}{8}$ =
 - **d.** $\frac{2}{3}$ =
- 5 pizzas are shared equally between a number of children. Each child gets 0.25 of a pizza.

How many children are there?

Can you find more than one way to find the answer to this question?

Can you write a similar problem for a friend to solve?

3. Which of these people has converted their fraction correctly? Prove it.



Lily

$$\frac{2}{6} = 0.33$$



Alex

$$\frac{3}{8}$$
 = 3.75



Nathan

$$\frac{3}{12}$$
 = 0.25



Oliver

$$\frac{6}{8} = 0.72$$

To convert fractions to decimals - Answers

Question No.	Question	Answer
1	Use place value counters and short division to show what each of these fractions is as a decimal: a. 1/4 = b. 4/5 = c. 7/8 = d. 2/3 =	a. 1/4 = 0.25 b. 4/5 = 0.80 c. 7/8 = 0.875 d. 2/3 = 0.66 Pupils should use equipment that is available to them to support them completing the division. They should also show a written short division to show the answer.
2	5 pizzas are shared equally between a number of children. Each child gets 0.25 of a pizza. How many children are there? Can you find more than one way to find the answer to this question? Can you write a similar problem for a friend to solve?	Method 1: Recognise that $5 \div ? = 0.25$. Write out the short division method and think about what number you can divide by to give the remainders and answers you need. Method 2: Understand that $0.25 = \frac{1}{4}$. So 5 must be a quarter of the number of children. Method 3: Count in 0.25s until you get to 5. How many are there? There are 20 children. Children will have different ideas.
3	Which of these people has converted their fraction correctly? Prove it. Lily $2\% = 0.33$ Alex $3\% = 3.75$ Nathan $3\% = 0.25$ Oliver $6\% = 0.72$	Lily and Nathan are correct. Alex and Oliver are not correct. Pupils should show this using short division.