## 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. $\frac{2}{3}=$
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?
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: <br> a. $1 / 4=$ <br> b. $4 / 5=$ <br> c. $7 / 8=$ <br> d. $2 / 3=$ | a. $1 / 4=0.25$ <br> b. $4 / 5=0.80$ <br> c. $7 / 8=0.875$ <br> d. $2 / 3=0.66$ <br> 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? <br> Can you write a similar problem for a friend to solve? | Method 1: <br> 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. <br> Method 2: <br> Understand that $0.25=1 / 4$. So 5 must be a quarter of the number of children. <br> Method 3: <br> Count in 0.25 s until you get to 5 . How many are there? There are 20 children. <br> Children will have different ideas. |
| 3 | Which of these people has converted their fraction correctly? Prove it. <br> Lily $2 / 6=0.33$ <br> Alex $3 / 8=3.75$ <br> Nathan $3 / 12=0.25$ <br> Oliver $6 / 8=0.72$ | Lily and Nathan are correct. Alex and Oliver are not correct. Pupils should show this using short division. |

