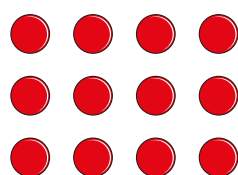White Rose Maths

1 Here are some counters.

a) Circle $\frac{1}{4}$ of the counters.

b) How many counters did you circle? ☐

c) What is $\frac{1}{4}$ of 12? ☐

2 Draw counters in the bar models to help you complete each number sentence. The first one has been done for you.

a) $\frac{1}{2}$ of 8 = 4

b) $\frac{1}{2}$ of 16 = ☐

c) $\frac{1}{4}$ of 8 = ☐

d) $\frac{1}{4}$ of 16 = ☐

3

To find a half I need to divide by 2

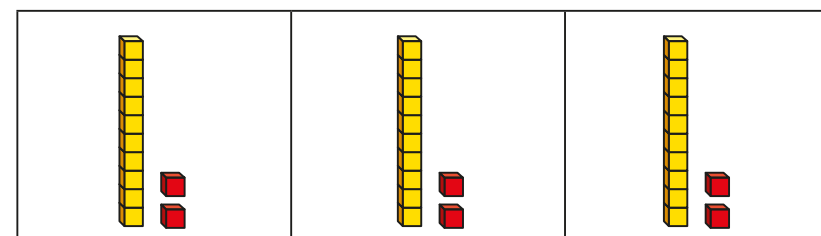Do you agree with Dexter?

Talk about it with a partner.

4 Complete the table.

Fraction	Division	Example	Drawing
one half	divide by 2	$\frac{1}{2}$ of 6 = 3	
one quarter		$\frac{1}{4}$ of 8 = 2	

5 Huan uses a bar model and base 10 to find $\frac{1}{3}$ of 36

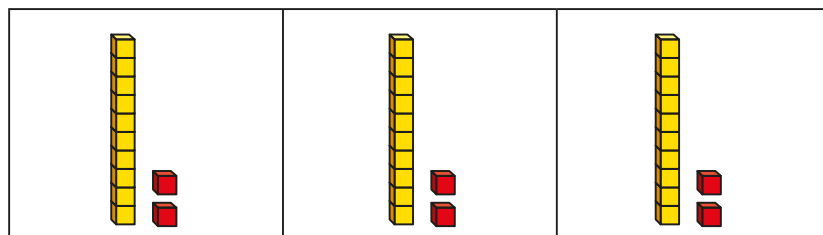Use Huan's method to complete the calculations.

a) $\frac{1}{3}$ of 63

b) $\frac{1}{4}$ of 48

c) $\frac{1}{4}$ of 92

4 Complete the table.

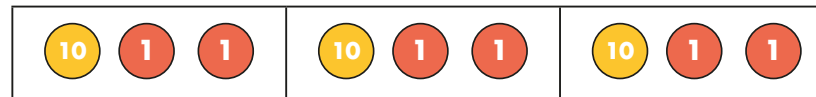| Fraction	Division	Example	Drawing
one half	divide by 2	$\frac{1}{2}$ of 6 = 3	
one quarter		$\frac{1}{4}$ of 8 = 2	

5 Huan uses a bar model and base 10 to find $\frac{1}{3}$ of 36

Use Huan's method to complete the calculations.

a) $\frac{1}{3}$ of 63

b) $\frac{1}{4}$ of 48

c) $\frac{1}{4}$ of 92

6 Nijah uses a bar model and place value counters to find $\frac{1}{3}$ of 36

Use Nijah's method to complete the calculations.

a) $\frac{1}{3}$ of 96
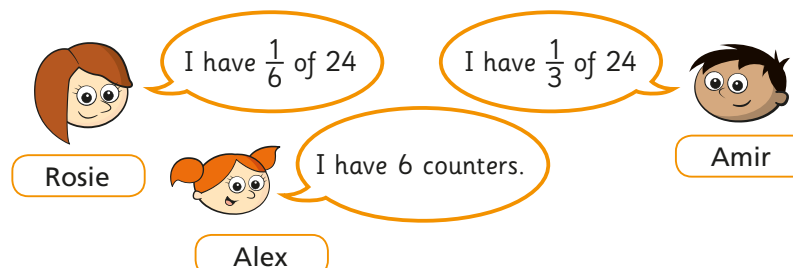
b) $\frac{1}{5}$ of 60

c) $\frac{1}{4}$ of 52

7 Which amount is greater?

$\frac{1}{3}$ of £75   or $\frac{1}{5}$ of £75   Show your workings.
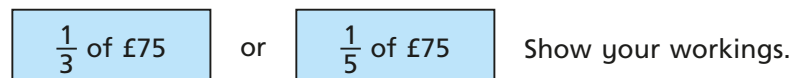
8 Complete the number sentences.

a) $\frac{1}{2}$ of ☐ = 30

b) $\frac{1}{4}$ of ☐ = 20

c) $\frac{1}{5}$ of ☐ = 50

9 Rosie, Amir and Alex each find a fraction of 24 using counters.

I have $\frac{1}{6}$ of 24

Rosie

I have $\frac{1}{3}$ of 24

Amir

I have 6 counters.

Alex

a) Order the children from least counters to most counters.

b) What fraction of the counters does Alex have?

c) Rosie and Amir put their counters together.

Write their total number of counters as a fraction of 24