Fractions of a set of objects (1)
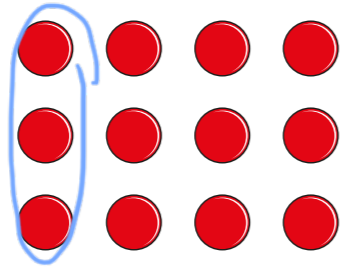
1 Here are some counters.

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

b) How many counters did you circle? **3**

c) What is $\frac{1}{4}$ of 12? **3**

2 Draw counters in the bar models to help you complete each number sentence. The first one has been done for you.
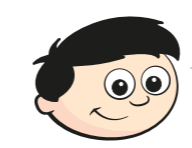
a) $\frac{1}{2}$ of 8 = **4**

b) $\frac{1}{2}$ of 16 = **8**

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

d) $\frac{1}{4}$ of 16 = **4**

3

> To find a half I need to divide by 2

Do you agree with Dexter? __yes__

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	divide by 4	$\frac{1}{4}$ of 8 = 2	
one third	divide by 3	$\frac{1}{3}$ of 15 = 5	
one fifth	divide by 5	$\frac{1}{5}$ of 15 = 3	

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 = 21

c) $\frac{1}{4}$ of 92 = 23

b) $\frac{1}{4}$ of 48 = 12

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

| 10 | 1 | 1 | 10 | 1 | 1 | 10 | 1 | 1 |

Use Nijah's method to complete the calculations.

a) $\frac{1}{3}$ of 96 = 32

c) $\frac{1}{4}$ of 52 = 13

b) $\frac{1}{5}$ of 60 = 12

7 Which amount is greater? Tick your answer.

$\frac{1}{3}$ of £75   or $\frac{1}{5}$ of £75 ✓

Show your workings.

8 Complete the number sentences.

a) $\frac{1}{2}$ of 60 = 30

c) $\frac{1}{5}$ of 250 = 50

b) $\frac{1}{4}$ of 80 = 20

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

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

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

Alex: I have 6 counters.

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

Rosie   Alex   Amir

least counters   most counters

b) What fraction of the counters does Alex have? $\frac{1}{4}$

c) Rosie and Amir put their counters together.

Write their total number of counters as a fraction of 24 $\frac{12}{24}$