Tenths as decimals
(I) Complete the table.


2 Match each bar model to the equivalent decimal.


$\square$

5 Continue the pattern.

| $\frac{1}{10}$ | 0.2 | 3 tenths | $\frac{4}{10}$ | 0.5 |
| :---: | :---: | :---: | :---: | :---: |
| 6 tenths |  |  |  |  |

6) What decimal is each arrow pointing to?

$A=$ $\square$
$\square$ $C=\square$
(7) Estimate the position of the decimals on the number lines.


Draw an arrow to show the fractions on the number lines.
a) $\frac{1}{2}$

b) $\frac{1}{3}$

C) $\frac{1}{4}$


Are your answers accurate or are they estimates?
(2) Write $<$, $>$ or $=$ to compare the fractions.
a) $\frac{1}{2}$

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

c) $\frac{1}{3}$

(3) Write the missing fractions on the number lines.
a)

b)

c)

d) Write three fractions that are equivalent to one whole.

Use the number lines to help you.


What do you notice?
$\qquad$

Talk about it with a partner.

Draw an arrow to estimate where each fraction belongs on the number line.
a) $\frac{3}{4}$

b) 1 and $\frac{2}{3}$

5) Write each fraction under the correct heading.

$\frac{3}{4}$
$\frac{7}{8}$

| Less than <br> one whole | Equal to <br> one whole | More than <br> one whole |
| :---: | :---: | :---: |
|  |  |  |
|  |  |  |
|  |  |  |

6 What fraction is shown in each diagram?
Draw an arrow to show the fraction on the number line.
a)

b)


7


Do you agree with Teddy? $\qquad$
Use the number line to show why


Here are some counters.

## $\bigcirc \bigcirc \bigcirc$ 0000

a) Circle $\frac{1}{4}$ of the counters.
b) How many counters did you circle? $\square$
c) What is $\frac{1}{4}$ of 12 ? $\square$
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 $8=4 \quad$|  |
| --- |

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

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

d) $\frac{1}{4}$ of $16=$ $\square$
$\square$
(3)


Do you agree with Dexter? $\qquad$
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 |  |  |  |
|  |  |  |  |
|  |  |  |  |

(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 $63=$ $\square$
c) $\frac{1}{4}$ of $92=$ $\square$
b) $\frac{1}{4}$ of $48=$ $\square$
(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 $96=$ $\square$
c) $\frac{1}{4}$ of $52=\square$
b) $\frac{1}{5}$ of $60=$ $\square$

7 Which amount is greater? Tick your answer.
$\frac{1}{3}$ of $£ 75$

Show your workings.

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8 Complete the number sentences
a) $\frac{1}{2}$ of $\square$ $=30$
c) $\frac{1}{5}$ of $\square$ $=50$
b) $\frac{1}{4}$ of $\square$ $=20$

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

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

(4) Brett uses a bar model and base 10 to find $\frac{2}{3}$ of 36
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Draw counters in the bar models to help you complete each number sentence.
a) $\frac{2}{3}$ of $15=\square$

b) $\frac{3}{4}$ of $8=\square$

c) $\frac{2}{5}$ of $20=$

(2) Match the questions and answers.
$\frac{2}{3}$ of $9=?$

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3
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$$
\frac{5}{6} \text { of } 12=?
$$

$$
\frac{3}{4} \text { of } 20=?
$$

(3) What is $\frac{6}{6}$ of 18 ?

How do you know?

Use Brett's method to complete the number sentences.
a) $\frac{2}{3}$ of $63=$ $\square$
b) $\frac{3}{4}$ of $48=\square$
c) $\frac{3}{4}$ of $92=\square$
(5) Kim uses a bar model and place value counters to find $\frac{2}{3}$ of 36
 Use Kim's method to complete the number sentences.
a) $\frac{2}{3}$ of $96=\square$
b) $\frac{3}{5}$ of $60=$ $\square$
c) $\frac{3}{4}$ of $52=$ $\qquad$

Complete the number sentences.
a) $\frac{2}{3}$ of $\square=30$
b) $\frac{3}{4}$ of $\square=30$
c) $\frac{5}{6}$ of $\square$ $=30$
(7)


Who is correct? $\qquad$
How do you know? Show your working.

8 Dora, Whitney and Ron each find a fraction of 24 using counters.

a) Who has the most counters? Show your workings.
b) How many more counters does Dora have than Whitney?

9 Write fractions to make the statements correct.


How many different answers can you find for each? Compare with a partner.

