

Problem N.


Problem N. Ask students

- How to write the 15 fish swimming? (1 ten, 5 ones)
- How to write the 9 fish that dart away? (9 ones)
- How many are left? Add or Subtract? (can count up from 9 to 15 or Subtract)
If subtracting:
How do we subtract 5 ones minus 9 ones?
- Ask student to draw blocks or dots for the 5 ones and 9 ones.
- The 5 ones are part of the number 15. Can break the 1 ten into 10 ones and move them all to the Ones place.
- Student can draw the 10 new blocks in the ones place that join the 5 .
- Cross of the 9 blocks one at a time and cross off 9 blocks from the top.
- How much are left? (6)
- 15-9 = 6 fish
(Instead of drawing tens and ones, students can use the paper $\$ 10$ and $\$ 1$ for the tens place and ones place.)

Samples of ways to solve problems - Unit 3




 ONES are there now? $(5+10=\underline{15})$ Can student take away 8 ? (cross out) How many ones are left? (7)
55 has 4 TENs remaining in the TENS place. How many TENS does 38 have? (3) Subtract. (4-3 = 1) How many TENS are left? (1) What is the final answer? (17)
Write equation and have student fill in the answer: [55-38=17].

## Problem N.



35 fewer small camels

Big Camels - 62
Small Camels - 27
How many fewer small camels?

Do you want to count up from 27 to 62 or subtract?
If Subtracting:

- What is the larger number? (62)
- What is the equation we use to solve? (62-27 = ?)
- How many TENS are in62? (6) Draw 6 long rectangles in the TENS place.
- How many ONES are in 62? (2) Draw 2 short squares in the ONES place.


## Subtracting ONES:

What do we need to do to subtract 7 ONES from 2 ONES?

- Trade/regroup/move 1 TEN to the ONES place. That means breaking it into ONES. How many ONES are there now? $(\mathbf{2 + 1 0 = 1 2})$
- How many ones are left from 12-7? (5)


## Subtracting TENS

- How many TENS are left in the TENS place for 62? (6-1 = 5)
- How many TENS does the number 27 have? (2)
- Subtract. How many TENS are left? (5-2 = 1)
- What is the final answer? (35)

Write equation and have student fill in the answer:
[62-27 = 35 fewer].
Note: The student use the play money instead of drawing the rods and units.




## Problem K.

Fair share a circle for yourself and 3 friends.

- Students often skip over themselves having a fair share, too.



## Problem F: David read 15 Books. Then he read 9 more

How many books does David read first? (15)

- How many TENS are in 15? (1) Draw 1 long rectangle in the TENS place.
- How many ONES are in 15? (5) Draw 5 short squares in the ONES place.
What changes in the problem? (David reads 9 more books)
- Are we adding or removing books? (adding)
- How many are we adding? (9)
- Does 9 go in the ONES place or TENS place? (ONES place) Now we are ready to add.
- Let's start with the ONES place.
- How many ONES do we have? $(5+9=14)$

Whoa, 14 has TENS and ONES.

- Let's bundle 10 ONES and move them to the TENS column. (circle the 10 ONES \& draw an arrow to show the move.
- How do we show the 10 ONES are bundled into 1 TEN? (1 long rectangle)
How many ONES are left? (4)
- Write (4) at the bottom of the ONES column.

How many TENS do we have now? (2)

- Write (2) at the bottom of the TENS column. ( 2 TENS $=20$ )
- How do we read this number, with (20) TENS and (4) ONES? (twenty-four).
(Write the equation as talking for student to complete)
[15 books +9 more books $=\underline{24}$ books]
David read 24 books.

D. Draw an array for $5 \times 4$

Do you want to make 4 rows with 5 columns or 5 rows with 4 columns?... Draw. Not required from the question, but still ask: What does $5 \times 4$ equal? (20)


E. What's missing? ___ $\mathbf{7 = 9}$ (if student needs help responding)
What is missing? The row or product total? (product/total)
How can we use the 7 and 9 to find out the product or total?
(multiply $7 \times 9$; skip count; make an array?) Do you know $5 \times$ 9 ? (45) We can break apart the 7 into 5 plus what? (2) Do you know what $2 \times 9$ is?

$$
\begin{aligned}
5 \times 9=45 \quad \text { Add: } \begin{aligned}
& 45=40+5 \\
& 2 \times 9=18
\end{aligned} & +\frac{18=10+8}{50+13} \\
& 50+10+3
\end{aligned}
$$

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| ONES | tenths $\left(\frac{x}{10}\right)$ | hundredths $\left(\frac{x}{100}\right)$ |
| :--- | :--- | :--- |
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B. Start with decimal and write the fraction: 0.5 How do we read this decimal? ( 5 tenths) How do you write 5 tenths as a fraction? $\frac{5}{10}$

| ONES | tenths $\left(\frac{x}{10}\right)$ | hundredths $\left(\frac{x}{100}\right)$ |
| :--- | :--- | :--- |
|  |  |  |

I.


How many ONES? (0)
How many tenths?(0) How many hundredths? (units) (2)

| ONES | tenths $\left(\frac{x}{10}\right)$ | hundredths $\left(\frac{x}{100}\right)$ |
| :--- | :--- | :--- |
|  | $\square \square \square \square \square \square$ |  |
|  |  |  |

## J. Write decimal for $3 / 4$.

We cannot go straight to a decimal from fourths. We need another step.
Do "fourths" have an equivalent fraction to tenths? Does 4 x (anything) = 10? (no)
Do fourths have an equivalent fraction to hundredths? Does 4 x (anything) $=100$ ? How about 4 quarters? Do 4 quarters make $\$ 1.00$ ? or 100 cents? (yes)
Since $4 \times 25=100$, let's figure out how many hundredths 3 fourths make.

$$
\frac{3}{4} \times \frac{25}{25}=\frac{75}{100}=0.75
$$

How do you write the decimal for 75 hundredths? (0.75)

