
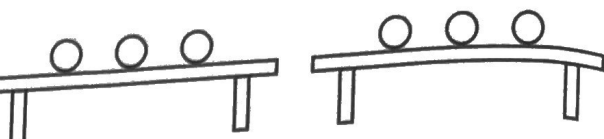
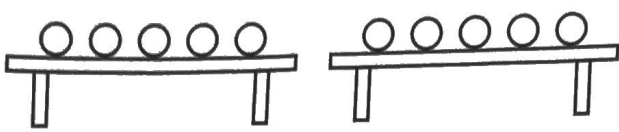


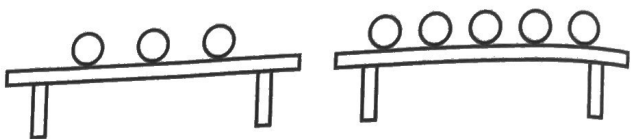
PA3-16 Equal and Not Equal

1. Write the number of balls on each table. Write = if the tables have the same number. Write \neq if they do not have the same number.

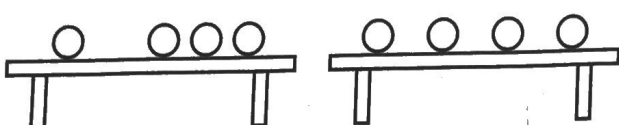
a) 
4 \neq 3

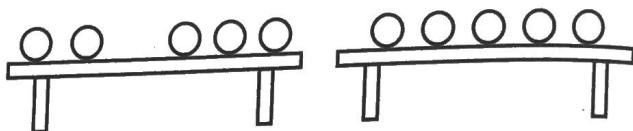
b) 
3 $=$ 3

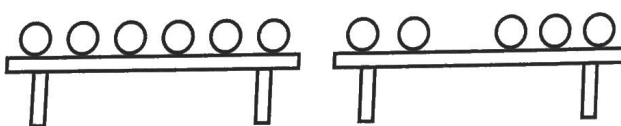
c) 
5 $=$ 5

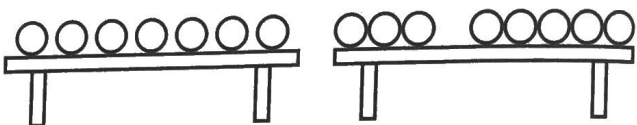
d) 
3 \neq 5

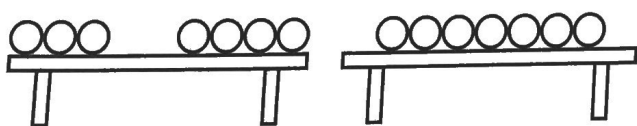
2. Write the number of balls. Write = or \neq in the box.

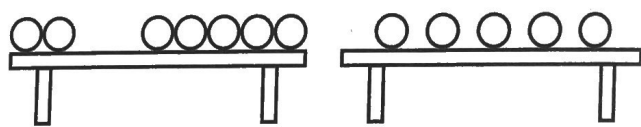
a) 
1 + 3 $=$ 4

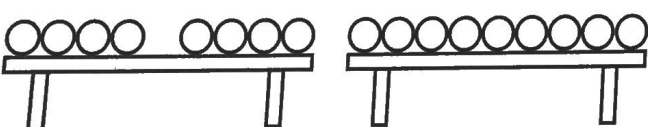
b) 
2 + 3 $=$ 5


c) 
6 \neq 2 + 3

d) 
7 \neq 3 + 5

e) 
3 + 4 $=$ 7

f) 
2 + 5 \neq 5

g) 
4 + 4 \neq 9

h) 
6 $=$ 4 + 2

3. Circle the correct addition sentence.

a) $7 = 3 + 4$

$7 \neq 3 + 4$

b) $9 = 5 + 3$

$9 \neq 5 + 3$

c) $8 = 6 + 2$

$8 \neq 6 + 2$

d) $5 = 3 + 1$

$5 \neq 3 + 1$

e) $11 + 5 = 16$

$11 + 5 \neq 16$

f) $12 + 3 = 15$

$12 + 3 \neq 15$

An **equation** is a number sentence that has an **equal sign (=)**.

$$3 + 5 = 8$$



equal sign

The equal sign shows that the left side of the number sentence has the same value as the right side.

4. Circle the number sentences that are equations.

A. $5 + 7 \neq 13$

B. $6 < 9$

C. $15 - 2 = 13$

D. $4 = 32 \div 8$

E. $6 \times 5 > 15$

F. $14 \neq 12 + 3$

5. Write "T" if the equation is true. Write "F" if the equation is false.

a) $3 + 7 = 10$ T

b) $9 + 4 = 12$ F

c) $2 + 17 = 18$ F

d) $6 - 2 = 4$ T

e) $24 - 5 = 19$ T

f) $25 - 13 = 11$ F

g) $3 \times 9 = 27$ T

h) $6 \times 7 = 42$ T

i) $56 = 8 \times 8$ F

j) $24 \div 4 = 8$ F

k) $12 \div 3 = 4$ T

l) $6 = 35 \div 5$ F

m) $14 + 13 = 27$ T

n) $9 \times 3 = 28$ F

o) $9 = 45 \div 5$ T

p) $18 - 12 = 7$ F

q) $4 = 15 - 10$ F

r) $8 = 80 \div 10$ T

BONUS ▶

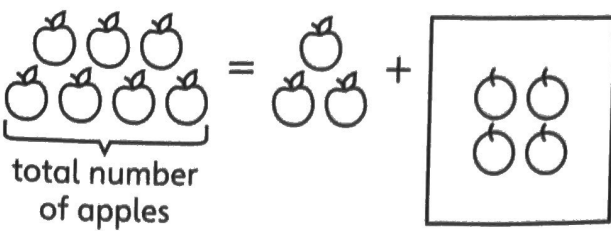
s) $2 + 4 = 3 \times 2$ T

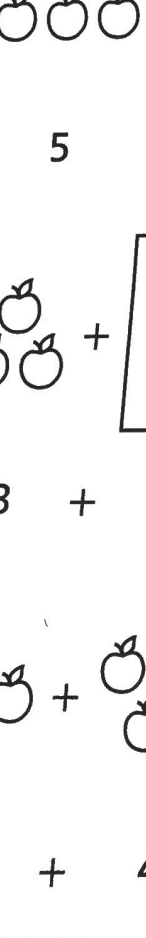
t) $5 + 6 = 14 - 2$ F

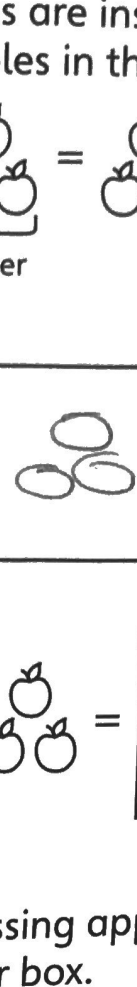
u) $24 \div 6 = 10 - 6$ T

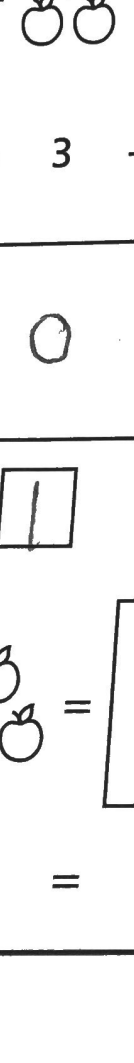
PA3-17 Addition Equations


1. Some apples are inside the box and some are outside. Draw the missing apples in the box.


a) 

b) 

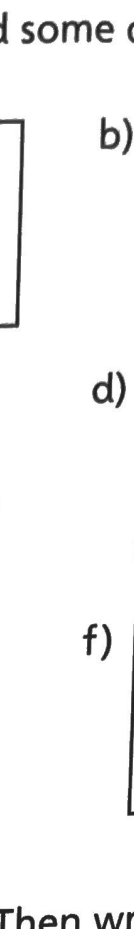
c) 


d) 


e) 

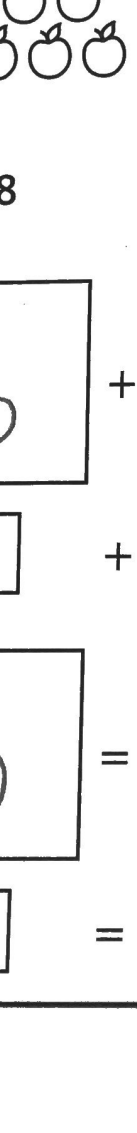
f) 


2. Draw the missing apples in the box. Then write the missing number in the smaller box.

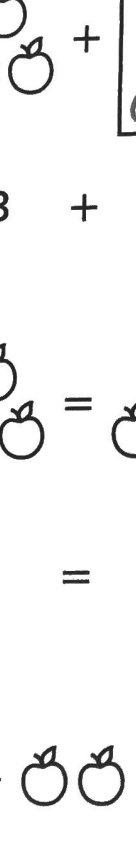
a) 
 $5 = 3 + \boxed{2}$

b) 
 $8 = 3 + \boxed{5}$

c) 
 $3 + \boxed{1} = 4$

d) 
 $\boxed{3} + 4 = 7$

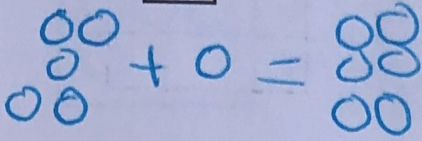
e) 
 $2 + 4 = \boxed{6}$

f) 
 $\boxed{3} = 1 + 2$

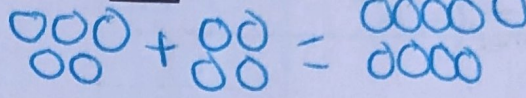
When you find the missing number in the equation, you solve it.

3. Draw a picture for the equation. Use your picture to solve the equation.

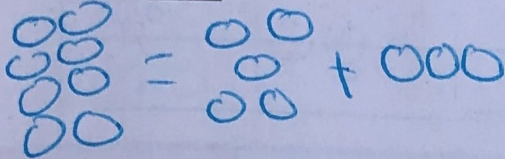
a) $5 + \boxed{1} = 6$



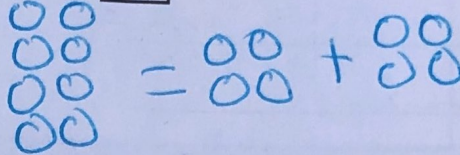
b) $\boxed{5} + 4 = 9$



c) $8 = \boxed{5} + 3$

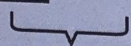


d) $\boxed{8} = 4 + 4$



To solve $\boxed{} + 3 = 7$, Megan guesses the unknown number is 3.

Megan checks her guess. $\boxed{3} + 3 = 7$ is not true.



6 is too small. To make a bigger sum, she tries 4.

Megan checks her new guess. $\boxed{4} + 3 = 7$ is true, so the unknown number is 4.

4. Solve the equation by guessing and checking.

a) $\boxed{1} + 3 = 4$

b) $2 + \boxed{7} = 9$

c) $9 = \boxed{5} + 4$

d) $10 = 6 + \boxed{4}$

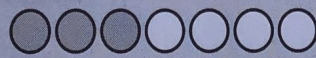
e) $5 + 7 = \boxed{12}$

f) $\boxed{13} = 7 + 6$

g) $15 = 9 + \boxed{6}$

h) $\boxed{8} + 8 = 16$

You can write 2 addition equations and 2 subtraction equations for this picture.



$3 + 4 = 7$

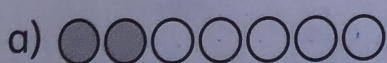
$4 + 3 = 7$

$7 - 3 = 4$

$7 - 4 = 3$

These equations make a fact family.

5. Write the fact family for the picture.

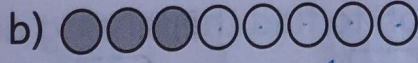


$2 + 5 = 7$

$5 + 2 = 7$

$7 - 2 = 5$

$7 - 5 = 2$

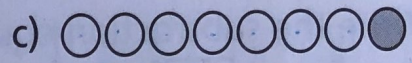


$3 + 5 = 8$

$5 + 3 = 8$

$8 - 5 = 3$

$8 - 3 = 5$



$7 + 1 = 8$

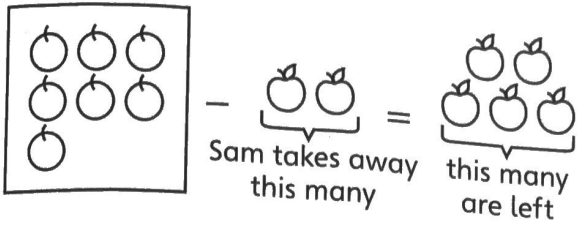
$1 + 7 = 8$

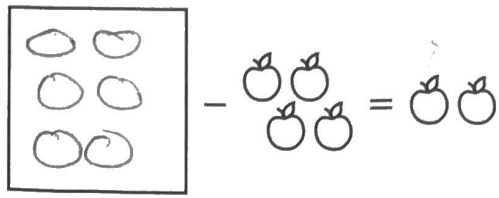
$8 - 7 = 1$

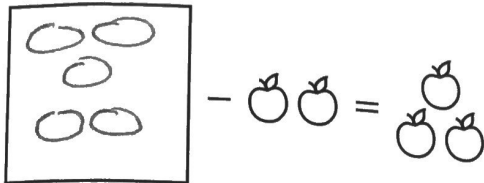
$8 - 1 = 7$

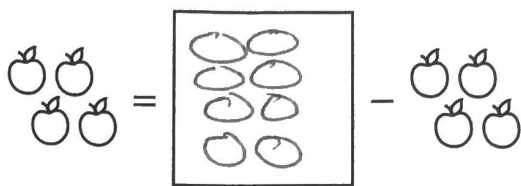
PA3-18 Subtraction Equations

1. Sam takes some apples from a box. Draw the apples that were in the box before.

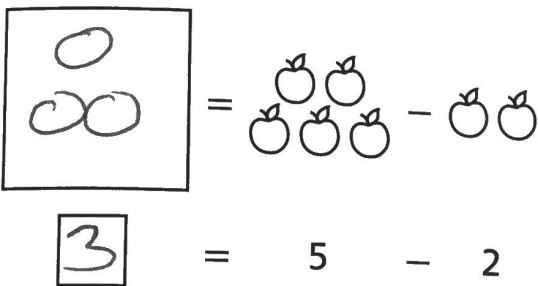
a) 

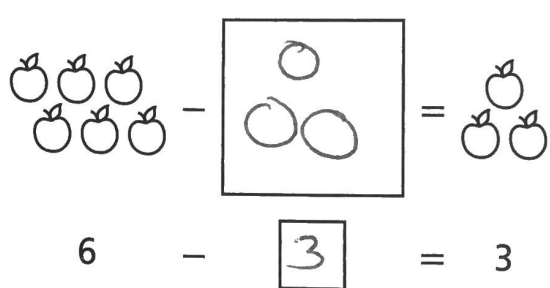
b) 

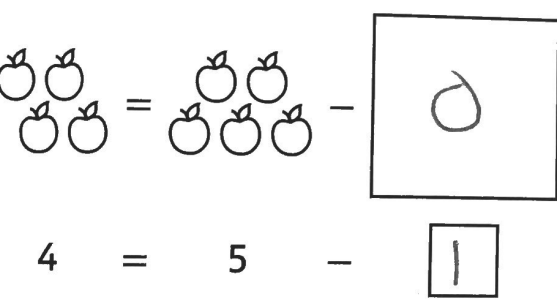
c) 

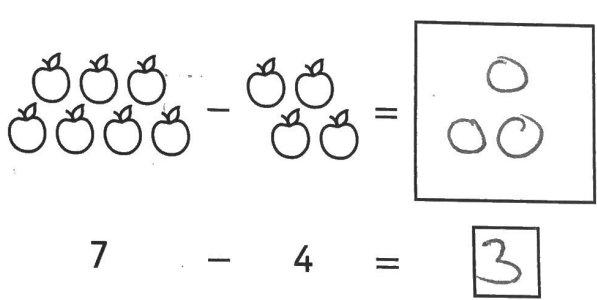
d) 

2. Draw the missing apples. Then write the missing number in the smaller box.

a) 

b) 

c) 

d) 

3. Draw a picture for the equation. Use your picture to solve the equation.

a) $6 - \boxed{5} = 1$



b) $3 = \boxed{9} - 6$



4. Solve the equation by guessing and checking.

- a) $\boxed{4} - 2 = 2$ b) $3 = \boxed{7} - 4$ c) $8 - 3 = \boxed{5}$ d) $\boxed{8} = 10 - 2$
 e) $9 - \boxed{7} = 2$ f) $3 = 10 - \boxed{7}$ g) $8 = \boxed{10} - 2$ h) $15 - 7 = \boxed{8}$
 i) $\boxed{18} - 8 = 10$ j) $13 = \boxed{17} - 4$ k) $28 - 13 = \boxed{15}$ l) $7 = \boxed{16} - 9$
 m) $16 - \boxed{8} = 8$ n) $8 = 15 - \boxed{7}$ o) $8 = \boxed{13} - 6$ p) $20 - \boxed{0} = 20$

Lela takes 3 apples from a box. 2 apples are left in the box.

$$\boxed{} - \text{○○○} = \text{○○}$$

$$\boxed{} - 3 = 2$$

Lela adds the number of apples she took out and the number of apples left to find the number of apples that started in the box.

$$3 + 2 = \boxed{5}$$

$$\text{○○○} + \text{○○} = \boxed{\text{○○○○○}}$$

5. Write an addition equation to find the number of apples that were in the box before.

- a) $4 = \boxed{7} - 3$ b) $\boxed{9} - 1 = 8$ c) $10 = \boxed{13} - 3$ d) $6 = \boxed{10} - 4$
 $3 + 4 = 7$ $8 + 1 = 9$ $10 + 3 = 13$ $6 + 4 = 10$
 e) $\boxed{12} - 6 = 6$ f) $\boxed{13} - 9 = 4$ g) $9 = \boxed{16} - 7$ h) $\boxed{19} - 10 = 9$
 $6 + 6 = 12$ $9 + 4 = 13$ $9 + 7 = 16$ $10 + 9 = 19$
 i) $\boxed{22} - 16 = 6$ j) $\boxed{37} - 23 = 14$ k) $19 = \boxed{46} - 27$ l) $\boxed{85} - 10 = 75$
 $16 + 6 = 22$ $23 + 14 = 37$ $19 + 27 = 46$ $10 + 75 = 85$
 m) $\boxed{53} - 21 = 32$ n) $\boxed{82} - 42 = 40$ o) $61 = \boxed{72} - 11$ p) $80 = \boxed{130} - 50$
 $21 + 32 = 53$ $42 + 40 = 82$ $61 + 11 = 72$ $80 + 50 = 130$

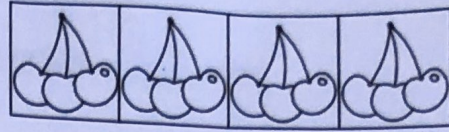
Unit 10: Multiplication and Division

Unit Check-in

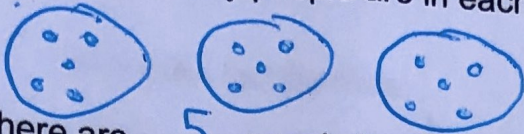
Name: Answer Key

Date: _____

1. a) How many sets of cherries? 4
 b) How many cherries in each set? 3



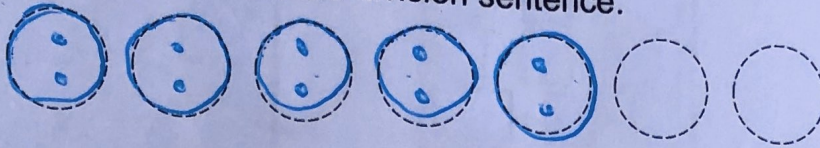
2. There are 15 people in 3 cars. Draw a picture using dots and circles to find how many people are in each car.



There are 5 people in each car.

3. The answer to the division sentence $10 \div 2 = 5$ shows the number of sets.

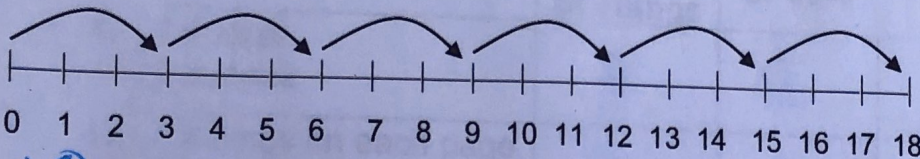
a) Draw a picture for the division sentence.



b) Write an addition sentence for the division sentence.

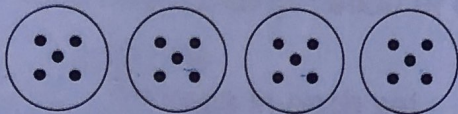
$2 + 2 + 2 + 2 + 2 = 10$

4. Use the number line to complete the division sentence.



$18 \div 3 = 6$

5. Write two division statements for the picture.



$20 \div 5 = 4$

$20 \div 4 = 5$

6. Write two multiplication sentences and two division sentences for the picture:

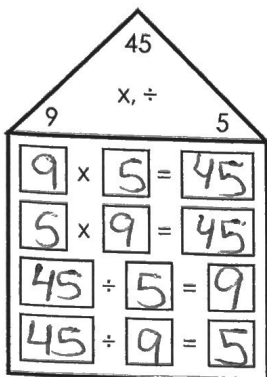


$$\begin{array}{l} 2 \times 5 = 10 \\ 5 \times 2 = 10 \\ 10 \div 2 = 5 \\ 10 \div 5 = 2 \end{array}$$

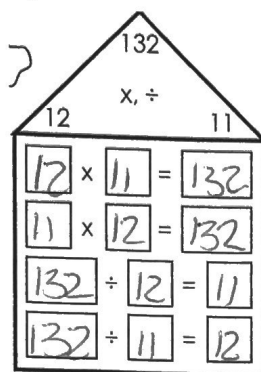
2 Groups 5 in each group 10 total

7. Fill out the fact families:

a.



b.



8. Fill in the table. Use a question mark (?) to show what you don't know.

	Total Number of Things	Number of Sets	Number in Each Set	Multiplication or Division Sentence
a) 8 people 2 canoes	8	2	?	$8 \div 2 = ?$
b) 7 stamps on each page 6 pages of stamps	?	6	7	$6 \times 7 = ?$

9. Write a multiplication or division sentence to solve the problem.

a) 6 sets
3 things in each set

$$6 \times 3 = 18$$

How many things altogether? 18

b) 20 things
5 sets

$$20 \div 5 = 4$$

How many things in each set? 4

10. Write a multiplication or division sentence to solve the problem. Don't forget the other things you need to answer a word problem.

a) There are 4 boxes. There are 3 crayons in each box. How many crayons are there?

$4 \times 3 = 12$ There are 12 crayons
altogether.



b) There are 15 peaches and 3 baskets. How many peaches are in each basket?

$15 \div 3 = 5$ There are 5 peaches
in each basket



Bonus: There are 80 marbles in 10 rows. How many marbles are in each row?

$80 \div 10 = 8$ There are 8 marbles
in each row.

