## HKTA The Yuen Yuen Institute No. 2 Secondary School <br> F. 1 Mathematics - Reinforcement Exercises in word problems

Name: $\qquad$ Class: $\qquad$ )

Date: $\qquad$

## Hints

- $\quad x$ is more than $y$ by 10
$\because x>y$ (Compare the size of 2 numbers)
$\therefore y=x-10$ ( $x$ is larger)
- $x$ is less than $y$ by 10
$\because y>x$ (Compare the size of 2 numbers)
$\therefore y=x+10(y$ is larger $)$

1. The age of Ben is $x$.

The age of Ben is more than the age of Mary by 12 .
(a) Express the age of Mary with $x$.
(b) Sum of their ages is 36 .

Find $x$.

$(x)+(x-12)=36$
2. The age of Anson is $y$.

The age of Anson is less than the age of Keith by 12.
(a) Express the age of Keith with $y$.

(b) Sum of their ages is 36 .

Find $y$.

$(y)+(y+12)=36$
－$\quad x$ is twice of $y / x$ is 2 times of $y$

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x是 y 的2倍
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$\because x>y$（Compare the size of 2 numbers）
$\therefore y=x \div 2=\frac{x}{2}$（ $x$ is larger）
－$\quad x$ is half of $y$

$$
x \text { 是 } y \text { 的一半 }
$$

$\because y>x$（Compare the size of 2 numbers）
$\therefore y=x \times 2=2 x \quad$（ $y$ is larger）
3．The age of Ben is $x$ ．
The age of Ben is 3 times of the age of Mary．
（a）Express the age of Mary with $x$ ．
（b）Sum of their ages is 36 ．
Find $x$ ．


$$
x+\frac{x}{3}=36
$$

4．The age of Anson is $y$ ．
The age of Anson is half of the age of Keith．
（a）Express the age of Keith with $y$ ．
（b）Sum of their ages is 36 ．
Find $y$ ．

$$
y+2 y=36
$$


5. Consider two numbers. One of them is less than the other by 8 . The sum of the two numbers is 30 . Suppose the smaller one is $x$. Find the two numbers.
$>$ Smaller number + Larger number $=30$
( $x$ ) $\quad(x+8)$

$$
(x)+(x+8)=30
$$

$\therefore$ The smaller number $=x=$ $\qquad$ . The larger number $=x+8=$ $\qquad$
$\qquad$ .
6. Consider two numbers. One of them is less than the other by 13 . The sum of the two numbers is 31 . Suppose the larger one is $y$. Find the two numbers.
$>$ Smaller number + Larger number $=31$

$\therefore$ The smaller number $=$ $\qquad$ $=$ $\qquad$ $=$ $\qquad$ . The larger number $=y=$ $\qquad$ .
7. In an English language test, Anson got $x$ marks. The mark of Sam was twice that of Anson. George got 85 marks and his mark was 5 more than Sam's. Find $x$.
$\because$ George's mark > Sam's marks
$\therefore$ Sam's marks $=$ George's marks -5

$$
(2 x)=85-5
$$

$\because$ Sam's marks > Anson's marks
$\therefore$ Sam's marks $=$ Anson's marks $\times 2$

$$
=2 x
$$

8. Crystal and her mother bought some milk. It is known that the amount Crystal's mother drank is $50 \%$ more than the amount Crystal drank. If they together drank 800 mL of milk, find the amount of milk Crystal drank.

Crystal drank + Mother drank $=800$
( $x$ )

Let $x$ be the amount of Crystal drank.
9. The weight of a mango is $w \mathrm{~g}$. A watermelon weighs 200 g more than 3 mangos.
(a) Express the weight of the watermelon in terms of $w$.
(b) If the weight of the watermelon is 1250 g , find the weight of the mango.
10. A convenience store has $n$ packs of 6 chocolate bars. After selling 3 packs, 90 bars are left. Find $n$.

