

# Unit Transfer Method

## Primary 5

### Lesson 8: Equal Concept

[www.mathsheuristics.com](http://www.mathsheuristics.com)  
[enquiry@mathsheuristics.com](mailto:enquiry@mathsheuristics.com)  
[www.facebook.com/groups/mathsheuristics](https://www.facebook.com/groups/mathsheuristics)

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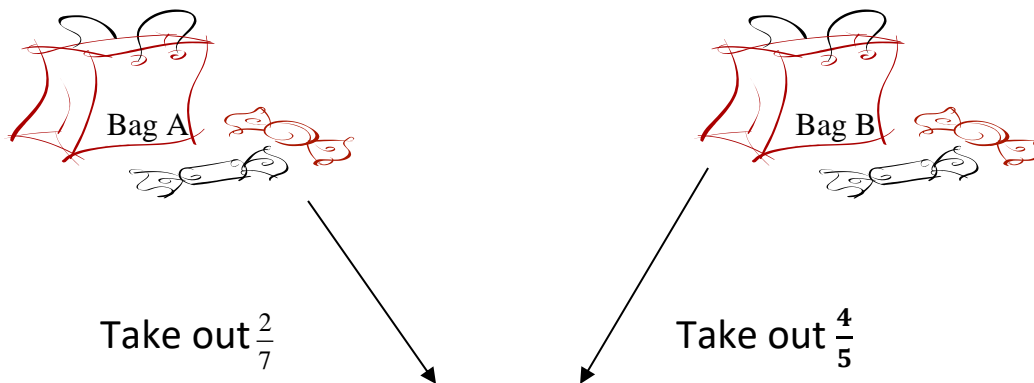
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## LESSON 8: EQUAL CONCEPT SCENARIOS

- When  $\frac{2}{7}$  of the total number of sweets in Bag A is equal to  $\frac{4}{5}$  of the total number of sweets in Bag B ...



The model will look like this:

The table will look like this:


**GUIDED EXAMPLE 1**

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25% of Peter's savings is the same as  $\frac{1}{3}$  of Alvin's savings.

- a) Who had more money, Peter or Alvin?
- b) They had a total savings of \$350.  
How much money did Peter have?

**GUIDED EXAMPLE 2**

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$\frac{3}{8}$  of Benson's savings is the same as  $\frac{1}{3}$  of Ray's savings.

Ray had \$90 more than Benson in savings.

How much did Benson have?

**GUIDED EXAMPLE 3**

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$\frac{3}{5}$  of Abby's money is equal to  $\frac{4}{9}$  of Betty's money.

Betty has \$140 more than Abby.

How much money does Betty have?

**GUIDED EXAMPLE 4**

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$\frac{2}{7}$  of the red pens in a drawer is 3 times as many as all the blue pens in it.

There are 38 more red pens than blue pens in the drawer.

How many pens are there in the drawer?

**GUIDED EXAMPLE 5**

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Mrs Lim baked 76 chocolate cakes and strawberry cakes.  
After she gave away 25% of the chocolate cakes and 80% of the strawberry cakes,  
she was left with the same number of chocolate cakes and strawberry cakes.  
How many cakes had she left?

**GUIDED EXAMPLE 6**

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Irene and Mary shared a sum of money.  
Irene spent  $\frac{2}{5}$  of her share and Mary spent  $\frac{3}{4}$  of hers.  
In the end, Irene had 6 times as much money as Mary.  
Given that Mary had \$270 less than Irene at first,  
find the amount of money Irene had at first.

**GUIDED EXAMPLE 7**

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A box contained some red marbles and some blue marbles.

$\frac{1}{4}$  of the red marbles and  $\frac{3}{7}$  of the blue marbles were removed.

In the end, there were 1.5 times as many red marbles as there were blue marbles.

Given that there were 20 fewer blue marbles than red marbles at first, find the number of red marbles in the box at first.

**BUILD YOUR UNDERSTANDING**

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1.  $\frac{2}{3}$  of Julie's number of cards was equal to  $\frac{2}{7}$  of her number of stamps.  
Julie had 32 fewer cards than stamps in her collection.  
How many stamps did she have?
  
  
  
  
  
  
  
  
  
  
2.  $\frac{3}{8}$  of the chocolates in Box A is 4 times as many as all the chocolates in Box B.  
Given that there are 116 more chocolates in Box A than in Box B,  
find the number of chocolates in Box B.



3. There are 44 students in Class 5A.  
 $\frac{2}{3}$  of the number of girls is the same as  $\frac{1}{4}$  the number of boys.
- a) How many girls are there in Class 5A?  
b) How many more boys than girls are there in Class 5A?
4. Mrs Lim bought 248 more white chocolates than dark chocolates.  
After she gave away  $\frac{5}{7}$  of the white chocolate and  $\frac{1}{3}$  of the dark chocolates,  
there is an equal number of white chocolates and dark chocolates remaining.  
How many white chocolates did she give away?

5. Daniel had 1000 apples and pears.  
He sold equal numbers of apples and pears.  
He then found that he had  $\frac{1}{10}$  of the apples and  $\frac{2}{5}$  of the pears left.  
Find the number of apples left.
6. Alice had \$237 more than Betty.  
Alice spent 80% of her money  
and Betty spent 25% of her money.  
In the end, Betty had 6 times as much money as what Alice had left.  
Find the amount of money Alice had at first.

7. There were 2.5 times as many girls in Class 5X as in Class 5Y.  
 $\frac{1}{4}$  of the pupils in Class 5X are girls and  $\frac{6}{7}$  of the pupils in Class 5Y are boys.  
Given that there is a total of 49 girls in the two classes,  
how many pupils are there in Class 5X?