

## Lesson 8 – Measurement: Money – Finding the Difference

NC Objective:

Solve problems with addition and subtraction involving measures

Resources needed:

Differentiated Sheets  
Teaching Slides

Vocabulary:

Money, addition, subtraction, counting on, counting back, difference

Children expand their knowledge of addition and subtraction strategies by specifically finding the difference between two amounts.

In this step, children should see both counting on and counting back being modelling to them.

They need to discuss which is the most efficient for different questions.

Key Questions:

Which cost more? How do you know?

How can you work out how much more?

What's the difference?

How much less? / How many fewer?

What method did you use to work his out?

### ★ Working Towards

Work on the difference in pence

1. I have 10p. I have 5p. The difference is \_\_\_\_\_ p.

2. I have 20p. I have 7p. The difference is \_\_\_\_\_ p.

3. I have 80p. I have 30p. The difference is \_\_\_\_\_ p.

4. I have 45p. I have 15p. The difference is \_\_\_\_\_ p.

How many pence does each have?

5. I have 10p. I have 5p. The difference is \_\_\_\_\_ p.

6. I have 20p. I have 7p. The difference is \_\_\_\_\_ p.

7. I have 80p. I have 30p. The difference is \_\_\_\_\_ p.

8. I have 45p. I have 15p. The difference is \_\_\_\_\_ p.

How many pence does each have?

9. I have 10p. I have 5p. The difference is \_\_\_\_\_ p.

10. I have 20p. I have 7p. The difference is \_\_\_\_\_ p.

11. I have 80p. I have 30p. The difference is \_\_\_\_\_ p.

12. I have 45p. I have 15p. The difference is \_\_\_\_\_ p.

### ★★ Working Within

Work on the difference in pence

1. I have 10p. I have 5p. The difference is \_\_\_\_\_ p.

2. I have 20p. I have 7p. The difference is \_\_\_\_\_ p.

3. I have 80p. I have 30p. The difference is \_\_\_\_\_ p.

4. I have 45p. I have 15p. The difference is \_\_\_\_\_ p.

5. I have 10p. I have 5p. The difference is \_\_\_\_\_ p.

6. I have 20p. I have 7p. The difference is \_\_\_\_\_ p.

7. I have 80p. I have 30p. The difference is \_\_\_\_\_ p.

8. I have 45p. I have 15p. The difference is \_\_\_\_\_ p.

9. I have 10p. I have 5p. The difference is \_\_\_\_\_ p.

10. I have 20p. I have 7p. The difference is \_\_\_\_\_ p.

11. I have 80p. I have 30p. The difference is \_\_\_\_\_ p.

12. I have 45p. I have 15p. The difference is \_\_\_\_\_ p.

### ★★★ Greater Depth

Work on the difference in pence

1. I have 10p. I have 5p. The difference is \_\_\_\_\_ p.

2. I have 20p. I have 7p. The difference is \_\_\_\_\_ p.

3. I have 80p. I have 30p. The difference is \_\_\_\_\_ p.

4. I have 45p. I have 15p. The difference is \_\_\_\_\_ p.

5. I have 10p. I have 5p. The difference is \_\_\_\_\_ p.

6. I have 20p. I have 7p. The difference is \_\_\_\_\_ p.

7. I have 80p. I have 30p. The difference is \_\_\_\_\_ p.

8. I have 45p. I have 15p. The difference is \_\_\_\_\_ p.

9. I have 10p. I have 5p. The difference is \_\_\_\_\_ p.

10. I have 20p. I have 7p. The difference is \_\_\_\_\_ p.

11. I have 80p. I have 30p. The difference is \_\_\_\_\_ p.

12. I have 45p. I have 15p. The difference is \_\_\_\_\_ p.

Children on this sheet find the difference in money of multiples of 10 or either pounds or pence.

They work out how many more pence or pounds with the same value in each box.

Children on this sheet find the difference in money using a variety of values.

They work out how many more pence or pounds with different values of coins in each box.

Children on this sheet find the difference in money using a mix of pounds and pence. They will need to convert pounds into pence.

They work out how many more pence or pounds with different values of coins in each box that cross the hundred and also complete questions using their reasoning skills.

They then answer word problems without any visuals- understanding that there are 100 pence in £1.

## Reasoning & Problem Solving

Reasoning & Problem Solving

Esin: I have 72 p.

Rosie: I have 3 different silver coins.

Malachi has 5 p.

Leonna has 10 p.

Clue: Both of them have a 5 p coin.

What coins could Rosie have?

Find the difference between the amounts.

How many different answers can you find?

What other coins could Leonna have?

Reasoning & Problem Solving

Esin: I have 72 p.

Rosie: I have 1 bronze coin and 2 silver coins.

Malachi has 5 p.

Leonna has 20 p.

Clue: Both of them have a 5 p coin.

What could Rosie have?

Find the difference between the amounts.

How many different answers can you find?

What other coins could Leonna have?

Reasoning & Problem Solving

Esin: I have 78 p.

Rosie: I have 2 bronze coins and 3 silver coins.

Malachi has 5 p.

Leonna has 20 p.

Clue: Both of them have a 5 p coin.

What could Rosie have?

Find the difference between the amounts.

How many different answers can you find?

If all Rosie's silver coins were different, would she have more money than Esin?

What other coins could Leonna have?

Find at least 5 possible answers.



Work out the difference in price.

The difference is \_\_\_\_\_p

The difference is \_\_\_\_\_p

The difference is \_\_\_\_\_p

The difference is \_\_\_\_\_pound

How many pounds less does Zach have?

Zach has \_\_\_\_\_ pounds less than Esin.

How many pence more does Malachi have?

Malachi has \_\_\_\_\_ pence more than Leanna.

How many pounds more does Rosie have?

Rosie has \_\_\_\_\_ pounds more than Leanna.

How many pence less does Tia have?

Tia has \_\_\_\_\_ pence less than Esin.



Work out the difference in price.

15p

20p

The difference is 5 p

20p

7p

The difference is 13 p

80p

30p

The difference is 50 p

£4

£5

The difference is 1 pound

How many pounds less does Zach have?

Esin

Zach

Zach has 3 pounds less than Esin.

How many pence more does Malachi have?

Leanna

Malachi

Malachi has 20 pence more than Leanna.

How many pounds more does Rosie have?

Leanna

Rosie

Rosie has 10 pounds more than Leanna.

How many pence less does Tia have?

Tia

Esin

Tia has 6 pence less than Esin.



Work out the difference in price.

The difference is \_\_\_\_\_p

The difference is \_\_\_\_\_p

The difference is \_\_\_\_\_p

The difference is \_\_\_\_\_p

How many pounds less does Esin have?

Esin has \_\_\_\_\_ pounds less than Zach.

How many pence more does Malachi have?

Malachi has \_\_\_\_\_ pence more than Leanna.

How many pounds more does Leanna have?

Leanna has \_\_\_\_\_ pounds more than Rosie.

How many pence less does Esin have?

Esin has \_\_\_\_\_ pence less than Tia.



Work out the difference in price.

The difference is 15 p

The difference is 22 p

The difference is 70 p

The difference is 3 p

How many pounds less does Esin have?

Esin has 2 pounds less than Zach.

How many pence more does Malachi have?

Malachi has 13 pence more than Leanna.

How many pounds more does Leanna have?

Leanna has 10 pounds more than Rosie.

How many pence less does Esin have?

Esin has 30 pence less than Tia.



Work out the difference in price.

£1 and 15p  $\longleftrightarrow$

£2 and 30p

The difference is \_\_\_\_\_

£1 and 29p

7p  $\longleftrightarrow$

The difference is \_\_\_\_\_

The difference in price is 46p.  
Draw a bar that could represent this.

The difference in price is two pounds.  
Draw a bar that could represent this.

£1 and 91p

How many pounds less does Zach have?

Esin

Zach

Zach has \_\_\_\_\_ pounds less than Esin.

Malachi has 54 pence more than Leanna.  
Draw the rest of the coins that Malachi might have.

Leanna

Malachi

Malachi has £9 and 22p  
Tia has £4 and 30p

How much more does Malachi have than Tia?

Sadia has £1 and 99p  
Kiara has 54p

How much more does Sadia have than Kiara ?

Numa has £14 and 6p  
Harry has £6 and 25p

How much more does Numa have than Harry?

Kiarna has £73 and 34p  
Rashida has £27 and 23p

How much more does Kiarna have than Rashida?



Work out the difference in price.

£1 and 15p  $\longleftrightarrow$

£2 and 30p

The difference is £1 and 15p

£1 and 29p

7p  $\longleftrightarrow$

The difference is £1 and 22p

The difference in price is 46p.  
Draw a bar that could represent this.

Multiple answers.

The difference in price is two pounds.  
Draw a bar that could represent this.

£3 and 91p

£1 and 91p

£1 and 91p

How many pounds less does Zach have?

Esin **£4** Zach **£3**

Zach has £1 pounds less than Esin.

Malachi has 54 pence more than Leanna.  
Draw the rest of the coins that Malachi might have.

Leanna Malachi

Multiple answers.  
Coins to total 86p

Malachi has £9 and 22p  
Tia has £4 and 30p

**£4 and 92p**

How much more does Malachi have than Tia?

Sadia has £1 and 99p  
Kiara has 54p

**£1 and 45p**

How much more does Sadia have than Kiara ?

Numa has £14 and 6p  
Harry has £6 and 25p

**£8 and 35p**

How much more does Numa have than Harry?

Kiarna has £73 and 34p  
Rashida has £27 and 23p

**£46 and 11p**

How much more does Kiarna have than Rashida?



Esin



I have 72 p.

Rosie



I have 3 different silver coins.

What coins could Rosie have?

Find the difference between the amounts.  
How many different answers can you find?



Malachi has 5 p.



Leanna has 10 p.



Clue: Both of them have a 5 p coin.

What other coins could Leanna have?



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Rosie



I have 3 different silver coins.

What coins could Rosie have?

Find the difference between the amounts.

How many different answers can you find?

Example answers:

Rosie could have:

- more than Esin: 50 p, 20 p, 5 p

- less than Esin: 20 p, 10 p, 5 p; or 50 p, 10 p, 5 p etc.



Malachi has 5 p.



Leanna has 10 p.



Clue: Both of them have a 5 p coin.

What other coins could Leanna have?

1 x 5 p;  
 2 x 2 p and 1 x 1 p;  
 1 x 2 p and 3 x 1 p  
 5 x 1 p



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1 x 5 p;  
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I have 1 bronze coin and 2 silver coins.

What could Rosie have?

Find the difference between the amounts.  
How many different answers can you find?



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How many different answers can you find?

Example answers:

Rosie could have:

- more than Esin: 50 p, 50 p, 1 p
- the same amount as Esin: 50 p, 20 p, 2 p;
- less than Esin: 20 p, 10 p, 2 p; or 20 p, 10 p, 1 p etc.



Malachi has 5 p.



Leanna has 20 p.



Clue: Both of them have a 5 p coin.

What other coins could Leanna have?

- 2 x 10 p
- 1 x 10 p and 5 x 2 p
- 1 x 10 p and 10 x 1 p
- 1 x 10 p and 1 x 2 p and 8 x 1 p
- 1 x 10 and 2 x 2 p and 6 x 1 p
- 1 x 10 p and 3 x 2 p and 4 x 1 p
- 1 x 10 p and 4 x 2 p and 2 x 1



Esin



I have 72 p.

Rosie

I have 1 bronze coin  
and 2 silver coins.

What could Rosie have?

Find the difference between the amounts.

How many different answers can you find?

Example answers:

Rosie could have:

- more than Esin: 50 p, 50 p, 1 p
- the same amount as Rosie: 50 p, 20 p, 2 p;
- less than Rosie: 20 p, 10 p, 2 p; or 20 p, 10 p, 1 p etc.



Malachi has 5 p.



Leanna has 20 p.



Clue: Both of them have a 5 p coin.

What other coins could Leanna have?

- 2 x 10 p
- 1 x 10 p and 5 x 2 p
- 1 x 10 p and 10 x 1 p
- 1 x 10 p and 1 x 2 p and 8 x 1 p
- 1 x 10 and 2 x 2 p and 6 x 1 p
- 1 x 10 p and 3 x 2 p and 4 x 1 p
- 1 x 10 p and 4 x 2 p and 2 x 1



Esin



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I have 2 bronze coins  
and 3 silver coins.

What could Rosie have?

Find the difference between the amounts.

How many different answers can you find?

If all Rosie's silver coins were different, would she have more money than Esin?



Malachi has 5 p.

Leanna has 30 p  
less than 50 p.

Clue: Both of them have a 5 p coin.

What other coins could Leanna have?

Find at least 5 possible answers.



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Example answers: Rosie could have:

- **more than Esin:** 50 p, 20 p, 5 p, 2 p, 2 p
- the same amount as Esin: 50 p, 20 p, 5p, 1 p, 2 p
- less than Esin: 20 p, 10 p, 5 p, 1p, 2 p;  
or 10 p, 10 p, 2 p, 2 p etc.



Malachi has 5 p.

Leanna has 30 p  
less than 50 p.

Clue: Both of them have a 5 p coin.

What other coins could Leanna have?

Find at least 5 possible answers.

- 2 x 10 p
- 1 x 10 and 2 x 5 p;
- 4 x 5 p;
- 1 x 10 p and 5 x 2 p
- 1 x 10 p and 10 x 1 p
- 1 x 10 p and 1 x 2 p and 8 x 1 p
- 1 x 10 and 2 x 2 p and 6 x 1 p



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If all Rosie's silver coins were different, would she have more money than Esin?

Example answers: Rosie could have:

- **more than Esin:** 50 p, 20 p, 5 p, 2 p, 2 p
- the same amount as Esin: 50 p, 20 p, 5p, 1 p, 2 p
- less than Esin: 20 p, 10 p, 5 p, 1p, 2 p;  
or 10 p, 10 p, 2 p, 2 p etc.



Malachi has 5 p.

Leanna has 30 p  
less than 50 p.

Clue: Both of them have a 5 p coin.

What other coins could Leanna have?

Find at least 5 possible answers.

- 2 x 10 p
- 1 x 10 and 2 x 5 p;
- 4 x 5 p;
- 1 x 10 p and 5 x 2 p
- 1 x 10 p and 10 x 1 p
- 1 x 10 p and 1 x 2 p and 8 x 1 p
- 1 x 10 and 2 x 2 p and 6 x 1 p