

# More Than, Less Than Teacher Guide

## Addition and Subtraction

### Task Order:

**Build 1:** Questions represented with bar models.



**Task A:** Pair task, match questions to bar models.



**Build 2:** Break down multi-step questions.



**Task B Version 1 or Task B Version 2:** Questions.



**Extend:** Multi-step questions.

More Than, Less Than Build 1

Sita and Holly have 14 grapes altogether.  
Sita has 4 more grapes than Holly.  
How many grapes does Holly have?

Which bar model?

More Than, Less Than Build 2

Mark and Karl have £80 in total.  
Mark has £10 more than Karl.  
How much money does Mark have?

**Answer: £45**

### Answers and Discussion Points:

**Task A:** 1 → C, answer = £66 2 → A, answer = £54 3 → D, answer = £33 4 → B, answer = £14

**Discussion point:** Identify the questions with 2 steps (Q2 and Q3). To extend, rank the questions by difficulty – question 3 has the most calculation steps.

**Task B Version 1:** Q1: £36 in the bottom bar, £42 in the top bar, answer = £42

Q2: £5.50 in bottom bar, answer = £14.50

Q3: Answer = 7 boys (10 girls)

Q4: Answer = 12 girls (8 boys)

**Discussion point:** For Q3 and Q4, compare a trial-and-error approach with the calculation method modelled in the build-up examples.

**Task B Version 2:** Q1: 43 sweets (Leo has 17 sweets)

Q2: Answer = 12 girls (15 boys)

Q3: Answer = 45 girls (33 boys)

Q4: Ola has £91, Sara has £91 - £28 = £63 and Fay has £250 - (£91 + £63) = **£96**

**Discussion point:** For Q3 and Q4, compare a trial-and-error approach with the calculation method modelled in the build-up examples.

**Extend:** Q1: Answer = 5

Q2: Answer = £26

Q3: Answer = 12 matches

L	5		24
M	5	4	
D	5	5	

D	£17		£65
M	£17	£5	
K	£17	£9	

W	7	8	34
L	7	5	
D	7		

# More Than, Less Than

# Which Bar Model?

# Task A

1 Beth has £40.  
Beth has £26 less than Amy.  
**How much money does Amy have?**

2 Max has £40. He has £26 more than Fred. **How much money do Max and Fred have altogether?**

3 Tom and Kam have £40.  
Kam has £26 less than Tom.  
**How much money does Tom have?**

4 Altogether, Jo and Eve have £40.  
Jo has £26.  
**How much money does Eve have?**



# More Than, Less Than

# Which Bar Model?

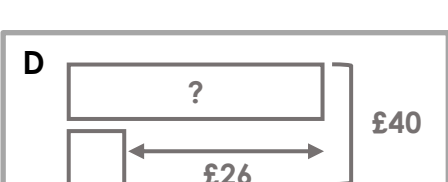
# Task A

1 Beth has £40.  
Beth has £26 less than Amy.  
**How much money does Amy have?**

2 Max has £40. He has £26 more than Fred. **How much money do Max and Fred have altogether?**

3 Tom and Kam have £40.  
Kam has £26 less than Tom.  
**How much money does Tom have?**

4 Altogether, Jo and Eve have £40.  
Jo has £26.  
**How much money does Eve have?**



# More Than, Less Than

# Task B Version 1

Question	Complete the bar model and answer:
<p>Rose has £36.</p> <p>Rose has £6 less than Lucy.</p> <p><b>How much money does Lucy have?</b></p>	
<p>Jack has £3.50 less than Ben.</p> <p>Ben has £9.</p> <p><b>How much money do Jack and Ben have altogether?</b></p>	
<p>There are 17 children at the party.</p> <p>There are 3 more girls than boys.</p> <p><b>How many boys at the party?</b></p>	
<p>There are 20 children in the hall.</p> <p>There are 4 more girls than boys.</p> <p><b>How many girls in the hall?</b></p>	

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<p>There are 20 children in the hall.</p> <p>There are 4 more girls than boys.</p> <p><b>How many girls in the hall?</b></p>	

# More Than, Less Than

# Task B Version 2

Question	Answer:
<p>Greg has 26 sweets.</p> <p>Greg has 9 more sweets than Leo.</p> <p><b>How sweets do Greg and Leo have altogether?</b></p>	
<p>There are 27 children at the party.</p> <p>There are 3 more boys than girls.</p> <p><b>How many girls at the party?</b></p>	<div> <div>B</div> <div></div> <div>G</div> <div></div> <div> <div></div> <div></div> </div> <div>27</div> </div>
<p>There are 78 children in the hall.</p> <p>There are 12 more girls than boys.</p> <p><b>How many girls in the hall?</b></p>	<div> <div></div> <div></div> <div></div> </div>
<p>Ola, Sara and Fay have £250 in total.</p> <p>Ola has £91.</p> <p>Sara has £28 less than Ola.</p> <p><b>How much money does Fay have?</b></p>	

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<p>Ola, Sara and Fay have £250 in total.</p> <p>Ola has £91.</p> <p>Sara has £28 less than Ola.</p> <p><b>How much money does Fay have?</b></p>	

More Than, Less Than

Extend

Question	Method and answer:
<p>Leon, Max and Dev have 24 stickers.</p> <p>Leon has 4 fewer stickers than Max and 5 fewer than Dev.</p> <p><b>How many stickers does Leon have?</b></p>	<div> <div> <div>L</div> <div>M</div> <div>D</div> </div> <div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div>24</div> </div> </div>
<p>Dean has £5 less than Mike.</p> <p>Kate has £4 more than Mike.</p> <p>In total, Dean, Mike and Kate have £65.</p> <p><b>How much money does Kate have?</b></p>	<div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div>£65</div> </div>

More Than, Less Than

Extend

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<p>Dean has £5 less than Mike.</p> <p>Kate has £4 more than Mike.</p> <p>In total, Dean, Mike and Kate have £65.</p> <p><b>How much money does Kate have?</b></p>	<div> <div></div> <div></div> <div></div> </div> <div> <div></div> <div>£65</div> </div>