

Maths Mastery

Addition and Subtraction Problems Challenge Cards



Addition and Subtraction Problems

Nikita has to solve this problem:

Mr Green drives a lorry. Last week he drove 197 miles, 232 miles and 164 miles on his 3 journeys.

This week he drove 309 miles and 265 miles on his 2 journeys.

What was the difference in mileage between this week and last week?

Nikita says it is best to find the total of miles for each week first. Discuss with a partner why this is the case, and then solve the problem.



Addition and Subtraction Problems

Over the weekend, Nikita spends 85 minutes on her project and 45 minutes on her maths homework.

On Monday, she spends 65 minutes on her spelling and grammar homework.

Explain how you would work out how much longer she spends on her homework over the weekend. Can you find more than one method?



Addition and Subtraction Problems

Pavel buys a T-shirt for £4.50, a skirt for £7.99 and a pair of shorts. He pays for the items with a £20 note and gets the following coins as change.



Discuss with a partner your answer and compare methods. Can you find a way to solve this using a diagram? How much were the shorts?



Addition and Subtraction Problems

George read three books in January, which had 173 pages, 206 pages and 139 pages.

He has some books to read in February. Two books have 287 pages and 114 pages. How many more pages must he read to read more pages in February than in January?

Draw a diagram, such as a bar model, to explain how to calculate the answer, and then solve the problem.

Explain your ideas to a partner.



Addition and Subtraction Problems

Ben has been keeping a track of how far he has walked each week.

On Monday, he walks 1760 metres. On Tuesday, he walks 30 metres further than on Monday and on Wednesday he walks the same distance as he did on Tuesday.

His target is to walk 2000 metres each day. Over the three days, by how much is Ben short of his target distance?

Work with a partner to find two different ways of calculating the answer and solve in both ways, checking your answers.



Addition and Subtraction Problems



George writes the following calculations:

$$4518 + 949 = 5467$$

$$5467 - 2083 = 3384$$

Write a word problem where these calculations provide the answer.

Compare your answer with a partner.

Change the numbers and ask another partner to solve the problem.

Addition and Subtraction Problems

Nikita wants to travel from Doncaster to Lincoln. If she gets the train at 20:27 she will arrive at Retford 36 minutes later. She will have a 20 minute wait for the 13 minute train to Lincoln.

Alternatively, she could get a direct train at 20:52 that takes 51 minutes. Which train will allow her to get to Lincoln first?

Show how you could use a timeline to explain your answer. Compare yours with a partner.

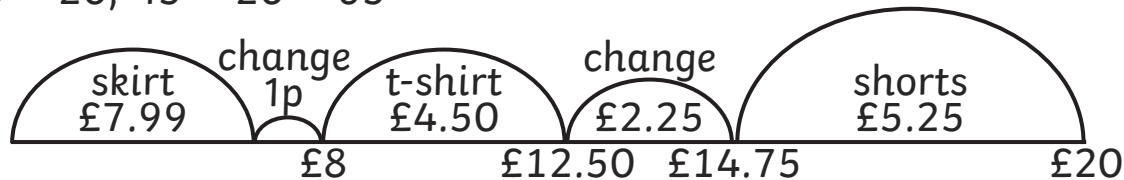
Maths Mastery Addition and Subtraction Problems Answers

1. It is helpful to know in which week Mr Green did the most miles to complete the subtraction to find the difference. $(197 + 232 + 164) - (309 + 265) = 19$

2. $(85 + 45) - 65 = 65$

$$85 - 65 = 20, 45 + 20 = 65$$

3. £5.25



4.

173 pages	206 pages	139 pages
287 pages	114 pages	117 pages

5. 1. Find the total number of calories consumed over the 3 days and then subtract from 2032×3 .

2. Find the difference for each day and add together. 756 calories.

6. Answers will vary

