

Year 5 Arithmetic Week Beginning 11th January

These tasks are to go alongside the daily zoom arithmetic lesson. A copy of the teaching slides are also available on the website.

Purple group tasks

Monday

A family has £22,658 in the bank.

They spend £3,600 on a holiday.

How much money do they have left?

It is 10,553 miles from London to Sydney.

It is 9,929 miles from New York to Sydney.

How much further away is Sydney from London than from New York?

Mr Hall has written these subtractions on the board.

$$45,541 - 25,865$$

$$68,945 - 34,758$$

Rosie's workings

$$\begin{array}{r} 25865 \\ - 45541 \\ \hline 20324 \end{array}$$

Whitney's workings

$$\begin{array}{r} 68945 \\ - 34758 \\ \hline 34213 \end{array}$$

Teddy and Jack are playing a computer game.

Teddy scores 55,890 points.

Jack scores 36,475 points fewer than Teddy.

a) How many points does Jack score?

Mo has £1,000 to spend. He buys a TV and a games console.



Does Mo have enough money left to buy the phone? _____

Show your workings.

Eva is reading a book before bedtime.

On Monday she reads 38 pages.

On Tuesday she reads 6 pages more than she did on Monday.

a) How many pages does she read on Tuesday?

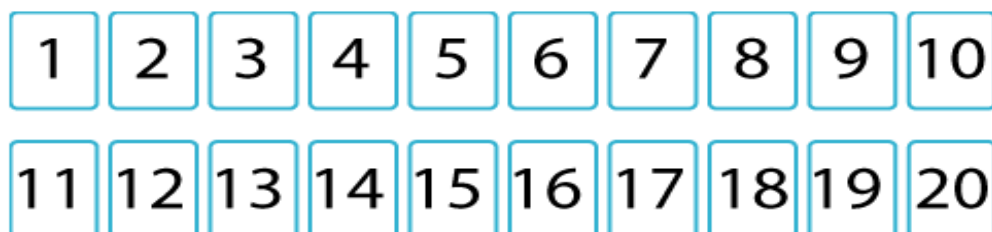
b) How many pages does she read altogether on Monday and Tuesday?

Two numbers have a difference of 1,200 and a total of 6,484
What are the two numbers?

Twenty Divided Into Six

Age 7 to 11 ★★

Katie had a pack of twenty cards numbered from 1 to 20.



She arranged the cards into six piles.

The numbers on the cards in each pile added to the same total.

What was the total and how could this be done? Are you curious enough to find out?

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Tuesday

Use the column method to work out the subtractions.

a) $13.59 - 1.82$

c) $5.6 - 1.39$

b) $73.84 - 9.2$

d) $18.2 - 3.64$

Complete the subtractions.

a)

		2	•	3	6
	-	1	•	4	
		<hr/>			
			•		
		<hr/>			

c)

		7	•	3	
	-	1	•	1	5
		<hr/>			
			•		
		<hr/>			

b)

		6	•	1	5
	-	3	•	8	
		<hr/>			
			•		
		<hr/>			

d)

		2	4	•	4	
	-		3	•	1	2
		<hr/>				
				•		
		<hr/>				

Use the column method to work out the subtractions.

a) $13.59 - 1.82$

c) $5.6 - 1.39$

b) $73.84 - 9.2$

d) $18.2 - 3.64$

a) $583,322 - 54,400$

b) $200,000 - 40,000$

c) $323,213 - 43,210$

d) $45.32 - 31.2$

e) $4.01 - 0.21$

f) $12.32 - 0.9$

g) $1,000,000 - 3453$

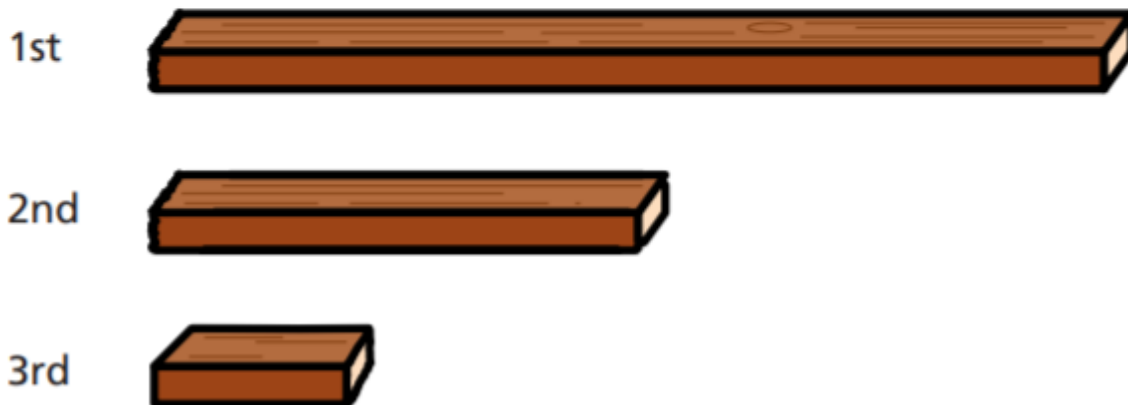
h) $675,000 - 675,675$

A piece of wood is 0.9 metres long.

It is cut into 3 unequal pieces.

The first piece is 0.2 metres longer than the second piece.

The third piece is 23 hundredths of a metre shorter than the second piece.

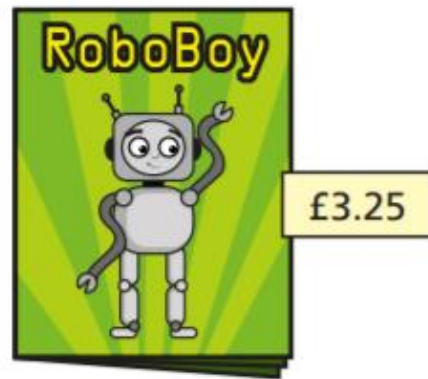


How long is each piece of wood?

Whitney has £8.52

She buys this comic.

How much money does she have left?



£

Here are some items for sale in a shop.



a) How much more does a scarf cost than a bag of marbles?

b) Esther has £15.31

She buys a pair of headphones and a bag of marbles.

How much money does she have left?

£

c) Tom has £7.01

He buys one item and has £5.92 left.

What did he buy?

Tom bought _____.

Tommy has three pieces of string.

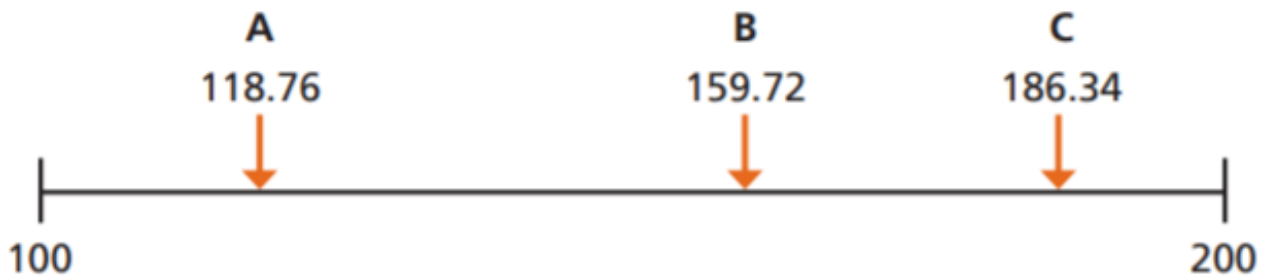
- The first piece is 0.78 m long.
- The second piece is 0.24 m shorter than the first piece.
- The third piece is 0.07 m shorter than the second piece.

What is the total length of all three pieces of string?

Give your answer in metres and centimetres.

m and cm

A, B and C are points on a number line.



How much greater is the difference between A and C than the difference between B and C?

The mass of a bag of marbles is 54.3 g.

These two marbles are removed from the bag.



What is the mass of the bag of marbles now?

g

What to do:

Children work individually or in pairs.

1. Copy this square.

+	0.7	0.2	1.1	1.8
1.3				
0.5				
0.6				
1				

2. Add the numbers in the top row and left column to complete the square.
3. Choose a number on the square and circle it.
4. Cross out all the numbers in the same row and column.
5. Choose another number – one that is not crossed out – and circle it.
6. Cross out all the numbers in the same row and column.
7. Repeat this for the third time.
8. Circle the remaining number.
9. Add the four circled numbers.
10. Now add the eight numbers round the outside of the square.
11. Finally add the numbers in each diagonal.

Try this again using the square below. What do you notice about the numbers here compared to those on the first square? Can you predict what may happen this time?

+	1.7	1.2	2.1	2.8
2.3				
1.5				
1.6				
2				

Try this again, starting with the original square, but this time adding $1/10$ to each number.

Use the original square to invent a new square where the same thing happens.