

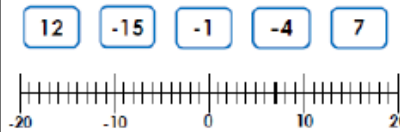
Year 5

Maths Pack 1

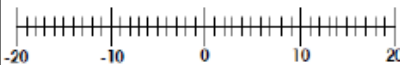
Summer Home Learning

Maths – Lesson 1

5a. Write the numbers below on the number line.



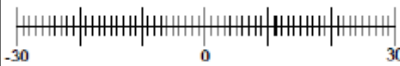
6a. If the temperature in Leeds is 18°C and the temperature in Helsinki is -13°C , what is the difference between the two temperatures? Use the number line to help.



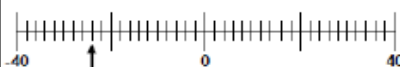
7a. Identify the coldest temperature in each set of data and mark it on the number line below.

A. -28 30 -21 17 -10 28

B. 9 21 -17 -23 29 -21



8a. True or false? The arrow is pointing to -12 on the number line below.

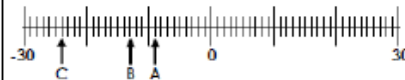


4a. Andy has recorded each answer to the questions below on the number line.

A. 14 more than minus 23

B. sixteen less than three

C. 15 subtract 42



Is he correct? Explain your answer.



5a. Hannah thinks that the number that lies halfway between A and B is 0.

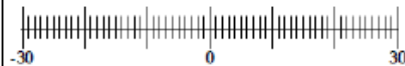


Is she correct? Prove it.



6a. Ben had $\pounds 28$ in his bank account. On Tuesday, his phone and broadband bills came out. His bank account is now $-\pounds 16$. If the phone bill was $\pounds 25$, how much was Ben's electricity bill?

Use the number line below for support.



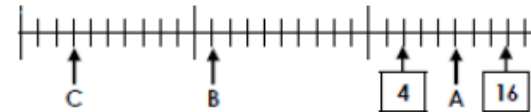
Deepen the moment:

Ellie has recorded each answer to the questions below on the number line.

A. The difference between 2 and -8

B. 14 more than minus 32

C. six minus twenty-eight

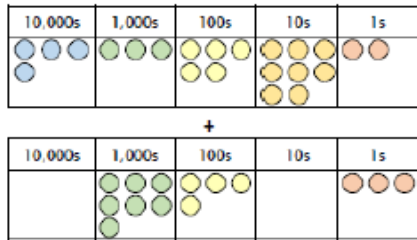


Is she correct? Explain your reasoning.

All the answers to these maths questions are included in this document.

Maths- Lesson 2

5a. Use the place value counters to add the numbers below.



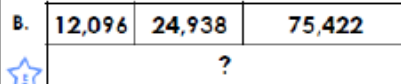
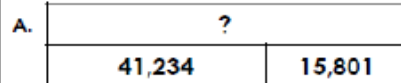
☆ VF

6a. True or false?

6	5	2	1	8
	2	7	0	3
+	3	0	1	9
	8	8	1	1
		1	1	1

☆ VF

7a. Complete the bar models below.



8a. Solve the addition calculations below.

i) $44,058 + 13,239 =$ _____

ii)

	5	9	0	6	1
		4	5	5	3
+		3	9	8	7

☆ VF

4a. Alan and Oscar are comparing their income.

	Earnings	Bonus
Alan	£28,568	£7,099
Oscar	£24,079	£9,865

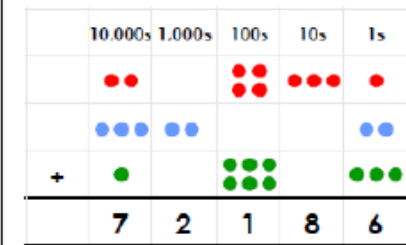
Alan: I earned more because $£28,568 + £7,099 = £35,667$.

Oscar: I earned more money because my bonus was almost £3,000 more than yours.

Who is correct? Explain why.

☆ R

5a. Add the missing place value counters to make this addition correct.



☆ R

6a. Jaiden completes this sum incorrectly.

	6	3	2	1	8
		4	2	8	9
+	3	4	7	0	3
	1	0	2	1	1
	1	1	1	2	

Explain the mistake he has made.

☆ R

Deepen the moment:

Sandy and Gabby are comparing their income.

	Earnings	Bonus
Sandy	£75,308	£3,297
Gabby	£68,488	£9,869

Sandy: In total, I earned £1,298 more than you.

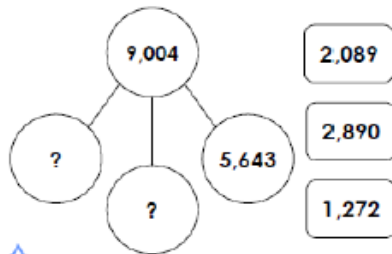
Gabby: Although my bonus was high, you still earned £248 more than me altogether.

Who is correct? Explain and prove your reasoning.

All the answers to these maths questions are included in this document.

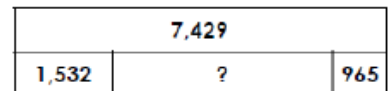
Maths – Lesson 3

5a. Use the cards to complete the part whole model.



VF

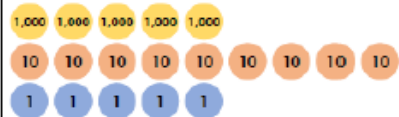
6a. Complete the bar model.



VF

7a. Tony thinks of a number.

After he adds 6,424 and subtracts 2,825, his number is 5,095.



What number did he start with?



VF

8a. Which of the following cards create a 2-step calculation that gives 6,184 as the answer?



VF

4a. A charity want to raise £9,559.

They raise £4,522 in the first month.

They raise two thousand, six hundred and twenty-five pounds less in the second month.

In the third month, they raise £1,540 more than what they raised in the second month.

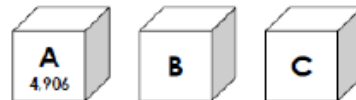
Does the charity reach their goal?



PS

5a. Jack is organising his sticker collection. He has 9,292 stickers in total.

Box A has 4,906 stickers. Box C has 1,208 fewer stickers than box A.



How many stickers are in box B?
Convince me.



Q

6a. Write a word problem to go with the following calculation.

$$7,886\text{ml} - 4,392\text{ml} + \boxed{\text{ml}} = 6,399\text{ml}$$

Solve your word problem.



PS

Deepen the moment:

True or false? Prove it!

A printing company are recording their quarterly sales.
They want to print 8,500 flyers in this quarter.

In January, they printed 2,264 flyers.

In February, they printed half the amount printed in
January.

In March, they printed 234 more than January and
February combined.

They have met their goal for this quarter.

All the answers to these maths questions are included in this document.

Maths – Lesson 4

1. Draw lines to match the factor pairs of 16. Which pair is the odd one out?

4		6
3		8
2		4

2. True or false? All of these numbers are factors of 22.

4	1	22
2	6	11

3. Circle the numbers that are NOT factors of 14.

7		1		4
	6		14	
		2		

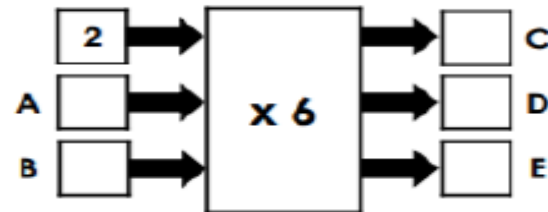
4. Complete the missing factors of 27.

1			27
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5. Complete the square using factor pairs for each number in the shaded boxes.

		42
4		24
28	36	

6. Three factors are put into the machine below. Use the clues to work out what the missing factors and products could be.



D is double C.

B is an odd number.

E is bigger than D but smaller than 40.

7. Class 5 have been finding factors.

Tommy says,



The number 16 has got six different factors.

Is he correct? Prove it.

Maths – Lesson 5

Challenge 1

Can you work out the values of each shape?

$$\star + \star = 20$$

$$\heartsuit - \star = 7$$

$$\heartsuit - \heartsuit = \blacktriangle$$

Challenge 2

Tom has six 10p coins and three 5p coins. He buys an apple for 59p and two pencils.

He has no money left. How much does a pencil cost?



Challenge 3

Here are some digit cards.



Amir and Donna each make a three-digit number using all the cards.

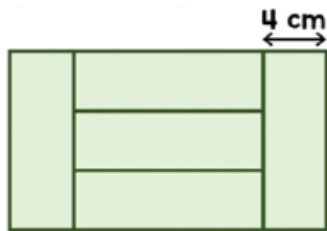
Amir notices that when he subtracts his number from Donna's number he gets an answer greater than 300 but less than 400.

What numbers did they make?

Challenge 4

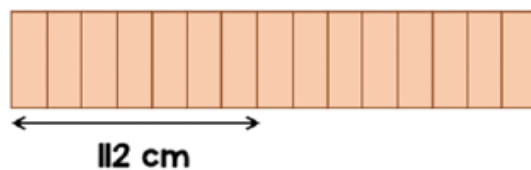
Five identical rectangles are put together to make a large rectangle.

The width of one rectangle is 4 cm. Work out the perimeter of the large rectangle.



Challenge 5

15 identical blocks are lined up as shown.



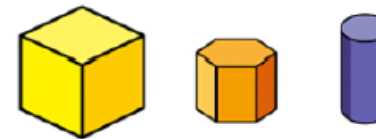
The length of each individual block is twice the width.

If all 15 blocks are then laid end to end lengthways, what is the total length of the blocks altogether now?

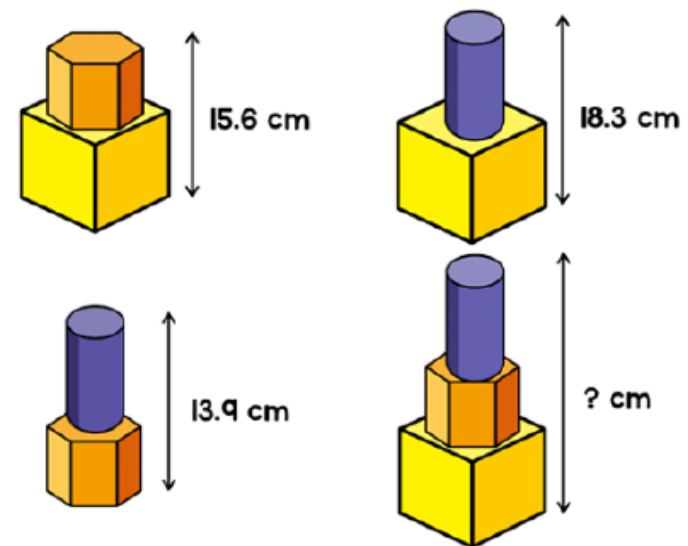


Challenge 6

Liam has these three shapes.



He uses them to make different towers. He measures the height of each tower he makes.



Liam stacks all three shapes to make one tall tower. How tall is the tower?

Maths lesson 1 answers:

5a. From L-R: -15, -7, -4, -1, 12

6a. 31°C

7a. A. -28; B. -23

8a. False, because it's pointing to -24.

4a. Andy is incorrect because C should be pointing to -27.

5a. Hannah is incorrect, as halfway between 11 and -13 is -1.

6a. £19

Deepen the moment answer:

Ellie is incorrect because C should be pointing to -22°C

Maths lesson 2 answers:

5a. $43,582 + 7,403 = 50,985$

6a. False as $65,218 + 2,703 + 30,192 = 98,113$.

7a. A = 57,035 B = 112,456

8a. i) 57,297 ii) 67,601

4a. Alan is correct because $\pounds 28,568 + \pounds 7,099 = \pounds 35,667$ which is greater than Oscar's total of $\pounds 33,944$.

5a. Various answers, for example:

	10,000s	1,000s	100s	10s	1s
	●●	●●●●	●●●	●●●●	●
	●●●●	●●	●	●●●●	●●
+	●	●●●	●●●●		●●●
	7	2	1	8	6

6a. Jaiden's answer should be 102,210. He has forgotten to add the one hundred that he has exchanged from the tens column.

Deepen the moment answer:

Gabby is correct because her total was £78,357.

Sandy's income was £78,605 which is £248 higher than Gabby's.

Maths lesson 3 answers:

Expected

5a. 2,089 and 1,272

6a. 4,932

7a. 1,496

8a. $5,645 - 3,566 + 4,105$ or $5,645 + 4,105 - 3,566$

Expected

4a. Yes. $\pounds 4,522 + \pounds 1,897$ ($\pounds 4,522 - \pounds 2,625$) + $\pounds 3,437$ ($\pounds 1,897 + \pounds 1,540$) = $\pounds 9,856$

5a. If A has 4,906 stickers and C has 3,698 stickers, B must have 688 stickers ($9,292 - 4,906 - 3,698 = 688$).

6a. Ryan is measuring ingredients to make lemonade. He needs 6,399ml of water. He starts with 7,866ml so needs to remove some, but he takes too much. How much does he need to add to make his total? The missing number is 2,905ml.

Deepen the moment answer:

False because $2,264$ (January) + $1,132$ (February)

+ $3,630$ (March) = $7,026$