Each day covers one maths topic. It should take you about 1 hour or just a little more.

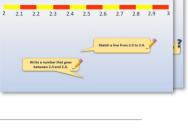
Start by reading through the Learning Reminders. 1. They come from our *PowerPoint* slides.

Tackle the questions on the Practice Sheet. 2. There might be a choice of either Mild (easier) or Hot (harder)! Check the answers.

3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

Have I mastered the topic? A few questions to 4. Check your understanding. Fold the page to hide the answers!





4 4538 - 0.02

6.231 + 0.10

8. 5.846 - 0.211

10. 5.846 - 0.013

4.538 + 0.2

3 4538-0004

6.231 + 0.11

7. 6.231+0.011

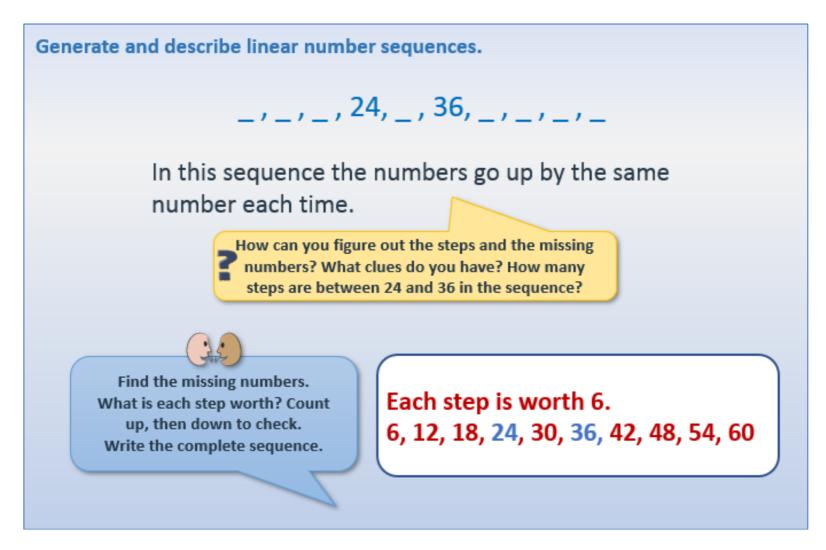
5.846 - 0.13

11. 5.846 - 0.204

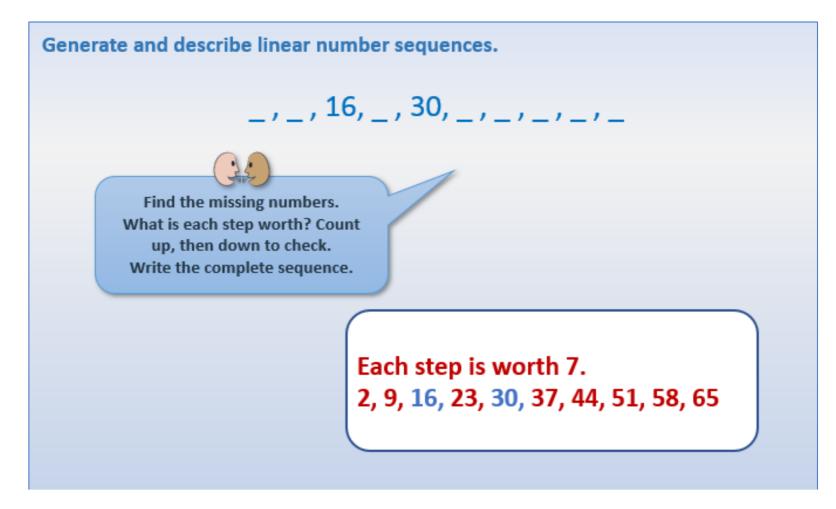


Iden	tify the value of the '4' in the following numbers:
(a)	3.407
(b)	4.821
(c)	0.043
(d)	5.104
(e)	48,739
How	many times must Dan multiply 0.048 by 10 to get 48,000'

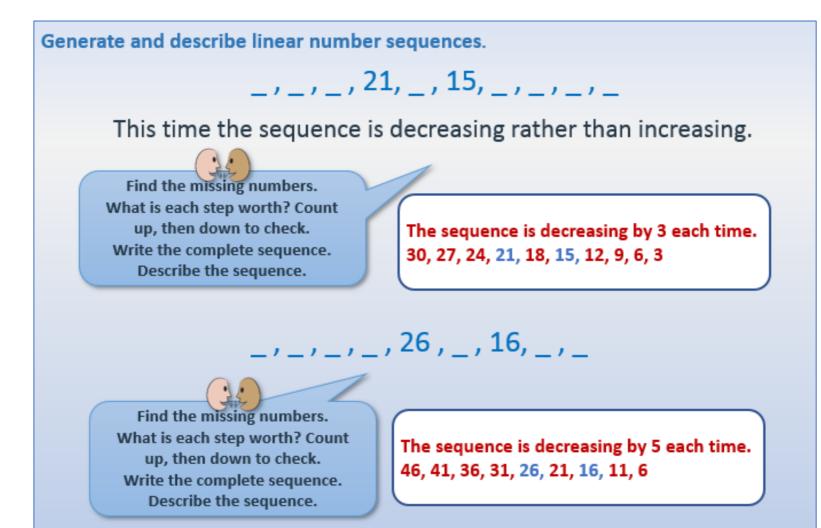
### **Learning Reminders**



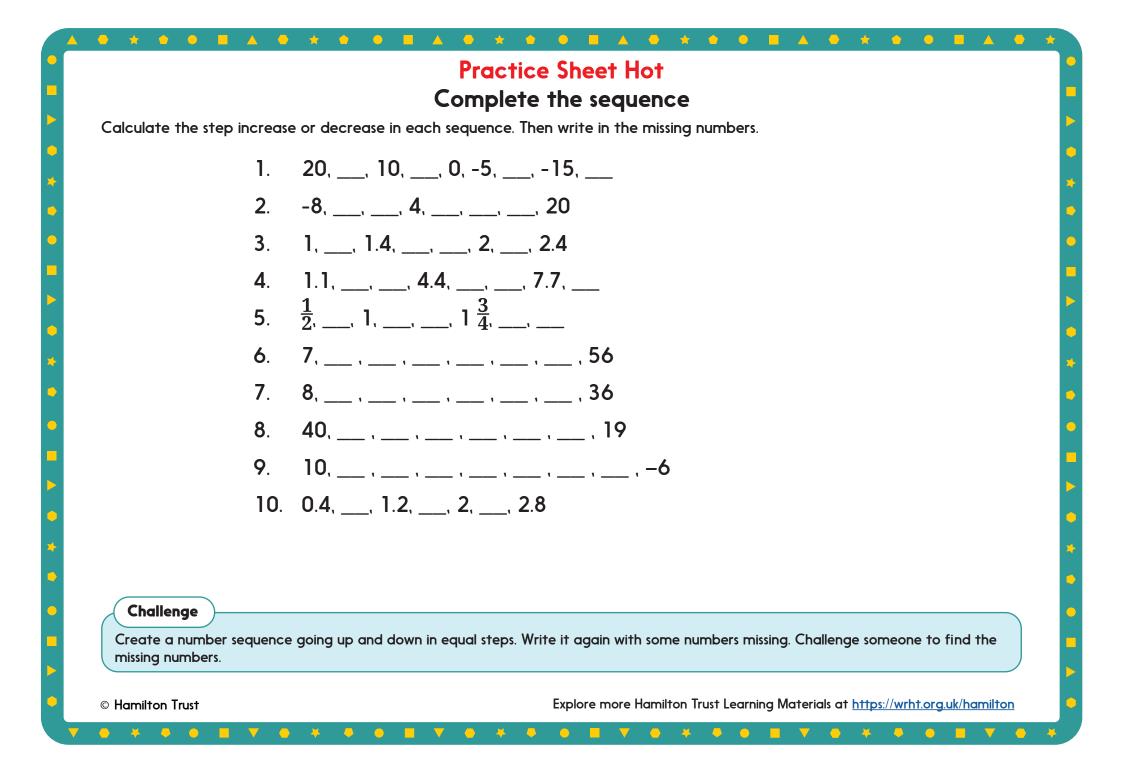
## **Learning Reminders**



## **Learning Reminders**



# **Practice Sheet Mild** Complete the sequence Calculate the step increase or decrease in each sequence. Then write in the missing numbers. 1. 7, \_\_\_, 17, \_\_\_, \_\_\_, 37, \_\_\_ 2. 7, \_\_\_, 21, \_\_\_, 49, \_\_\_ 3. 72, \_\_\_, \_\_\_, 40, \_\_\_, 16 4. 99, \_\_\_, \_\_, 55, \_\_, 22 5. 3, \_\_\_, 17, \_\_\_, 38, \_\_\_, \_\_\_ 6. 50, \_\_\_, \_\_\_, \_\_\_, 30, \_\_\_, 22 7. 20, \_\_\_, 10, \_\_\_, 0, -5, \_\_\_, -15, \_\_\_ 8. -8, \_\_\_, \_\_, 4, \_\_\_, 20 9. 1, \_\_\_, 1.4, \_\_\_, 2, \_\_\_, 2.4 10. 10, \_\_\_, 9, \_\_\_, 7.5, \_\_\_, \_\_\_



# **Practice Sheets Answers**

#### Complete the sequence (mild)

7, 12, 17, 22, 27, 32, 37, 42 1. 2. 7, 14, 21, 28, 35, 42, 49, 56 3. 72, 64, 56, 48, 40, 32, 24, 16 4. 99, 88, 77, 66, 55, 44, 33, 22 3, 10, 17, 24, 31, 38, 45, 52 5. 6. 50, 46, 42, 38, 34, 30, 26, 22 7. 20, 15, 10, 5, 0, -5, -10, -15, -20 8. -8, -4, 0, 4, 8, 12, 16, 20 9. 1, 1.2, 1.4, 1.6, 1.8, 2, 2.2, 2.4 10, 10, 9.5, 9, 8.5, 8, 7,5, 7, 6.5

#### Complete the sequence (hot)

1.	20, 15, 10, 5, 0, -5, -10, -15, -20
2.	-8, -4, 0, 4, 8, 12, 16, 20
3.	1, 1.2, 1.4, 1.6, 1.8, 2, 2.2, 2.4
<b>4</b> .	1.1, 2.2, 3.3, 4.4, 5.5, 6.6, 7.7, 8.8
5.	$\frac{1}{2}$ , $\frac{3}{4}$ , 1, 1 $\frac{1}{4}$ , 1 $\frac{1}{2}$ , 1 $\frac{3}{4}$ , 2, 2 $\frac{1}{4}$
<b>6</b> .	7, 14, 21, 28, 35, 42, 49, 56
<b>7</b> .	8, 12, 16, 20, 24, 28, 32, 36
8.	40, 37, 34, 31, 28, 25, 22, 19
9.	10, 8, 6, 4, 2, 0, -2, -4, -6
10.	0.4, 0.8, 1.2, 1.6, 2, 2.4, 2.8

Explore more Hamilton Trust Learning Materials at https://wrht.org.uk/hamilton

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Things you will need: • A pencil

#### What to do:

Spot the rule for each sequence. Use this to work out the missing numbers.

A Bit Stuck? Spot the rule

2, 7, 12, 17,,,	The rule is
1, 5, 9, 13,,,	The rule is
3, 10, 17, 24,,,	The rule is
,, 23, 26, 29, 32, 35	The rule is
4, 14,,, 54, 64	The rule is
20, 26,, 38,, 50, 56	The rule is

S-t-r-e-t-c-h:

Make up your own rule. Use this to write a sequence of seven numbers. Can your partner work out your rule?

#### Learning outcomes:

• I can spot the rule of sequences and use it to work out missing numbers.

• I am beginning to use my own rules to generate sequences.

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## Check your understanding Questions

The fourth term of a sequence is 17, the fifth is 21 and the sixth is 25. Write the next four terms. Then write the first three terms. What is the general rule?

Write the 10<sup>th</sup> term in this sequence: 1.5, 4.5, 7.5, 10.5 ...

Three matches are arranged to make a triangle. How many more need to be added to make 2 triangles?

How many more to make 3 triangles?

Continue this sequence for 6 triangles.

Write the number of matches that it takes to have 12 triangles.

Fold here to hide answers

# **Check your understanding**

#### Answers

The fourth term of a sequence is 17, the fifth is 21 and the sixth is 25.

Write the next four terms. 29, 33, 37, 41.

Then write the first three terms. 5, 9, 13.

What is the general rule? It increases by 4 each time. Children may notice that it is the sequence of numbers is 1 more than the 4 times table.

Write the 10<sup>th</sup> term in this sequence: 1.5, 4.5, 7.5, 10.5 ... 28.5.

Three matches are arranged to make a triangle. How many more need to be added to make 2 triangles? 2 more (5 in total).

How many more to make 3 triangles? 2 more (7 in total).

Continue this sequence for 6 triangles. Will need another 6 matches (13 in total).

Write the number of matches that it takes to have 12 triangles. 25.