Maths

Number and Place Value

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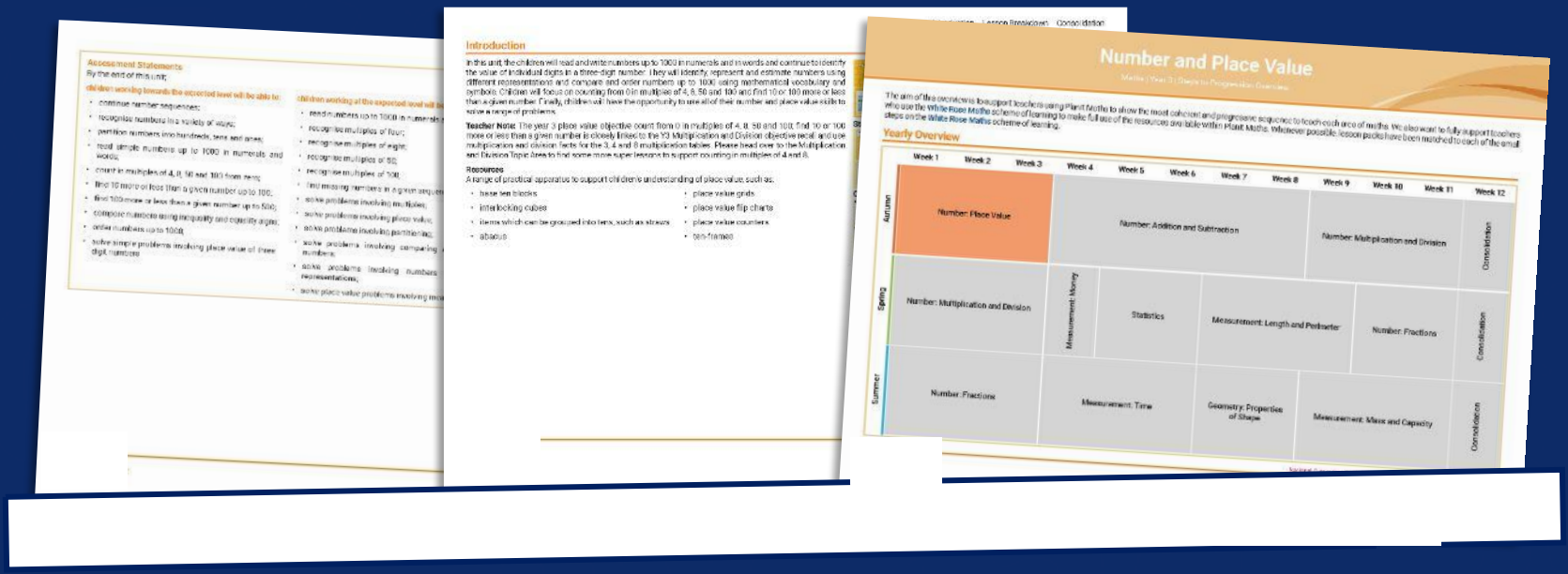
Need a coherently planned sequence of lessons to complement this resource?



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Counting in Eights

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Aim

- To count in multiples of eight.

Success Criteria

- I can count forwards in steps of eight.
- I can count backwards in steps of eight.
- I can recognise multiples of eight.

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Remember

In pairs or threes, take turns to count in ones using these rules:

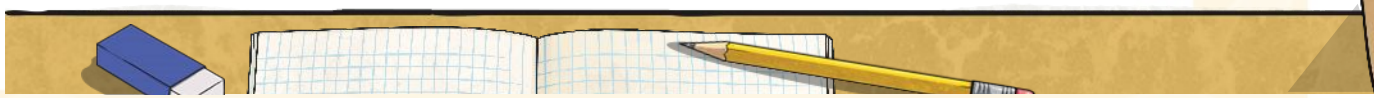
Every multiple of 2 is replaced with the word

Every multiple of 4 is replaced with the word

Every multiple of 5 is replaced with the word

Did you spot a pattern with the words used?

Were there any numbers that required more than one word?



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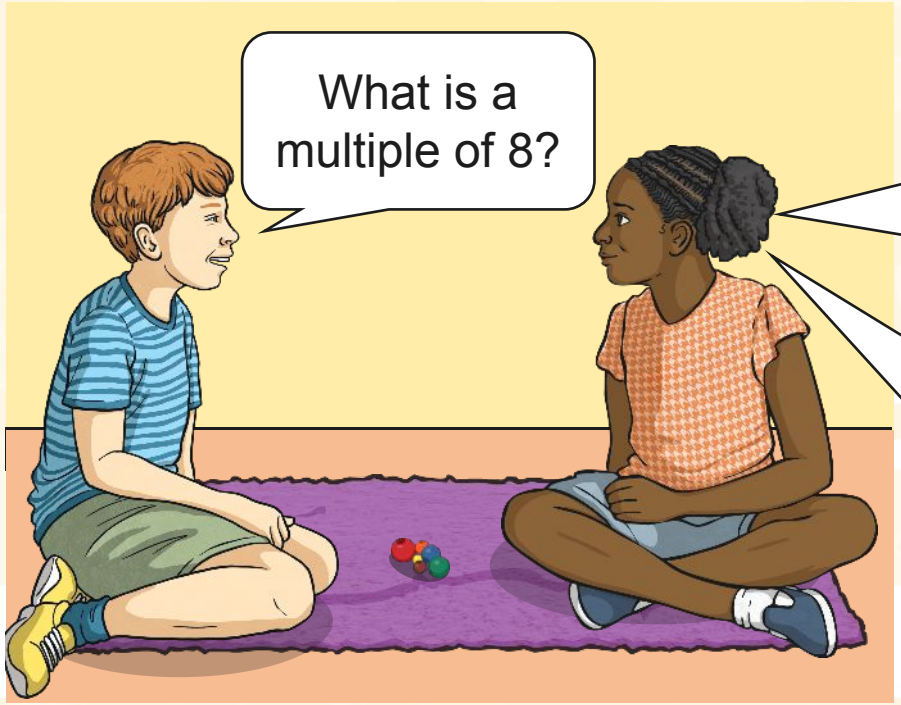
Making Jewellery – Counting Forwards

Helena is making jewellery.

Today, she is going to use coloured beads in multiples of 8.



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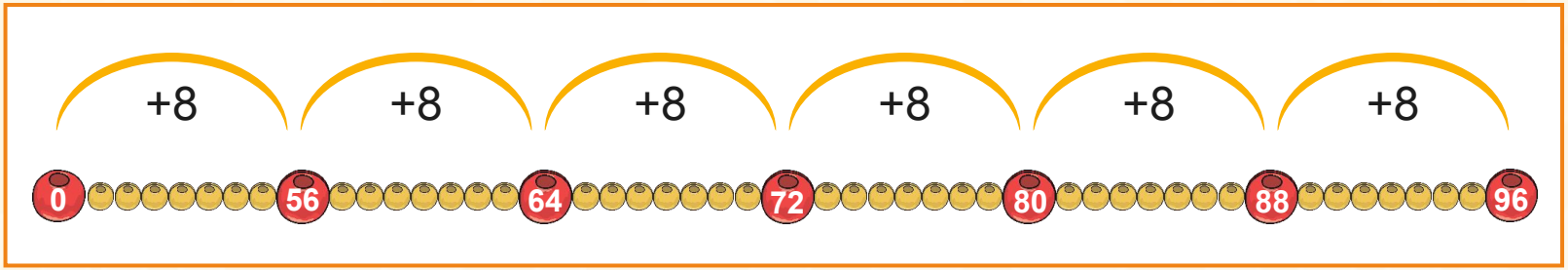
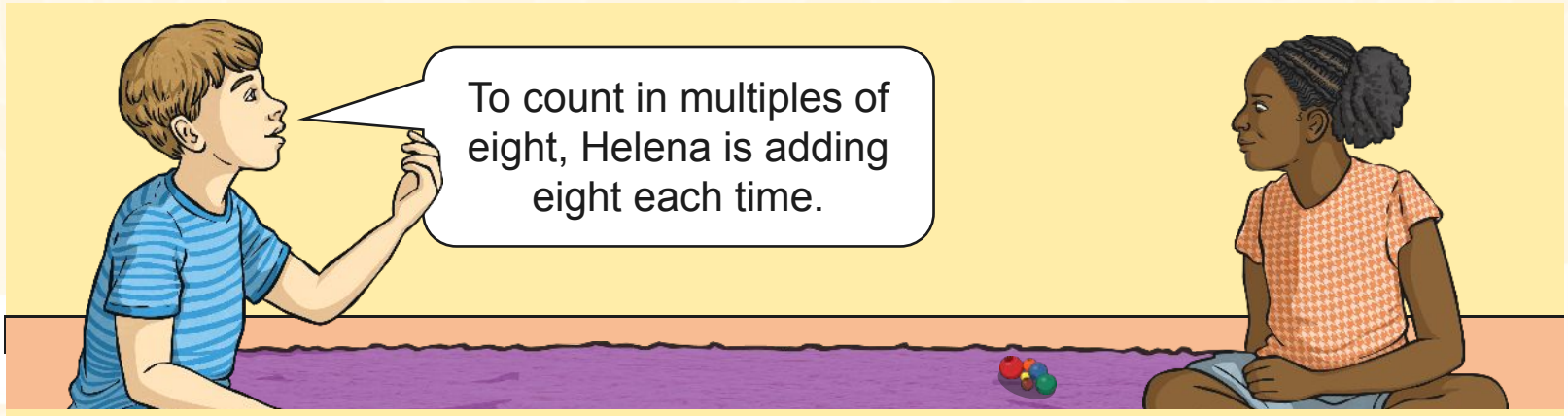
Making Jewellery – Counting Forwards

Helena wants to count her beads in multiples of 8 from zero.

Let's help her!





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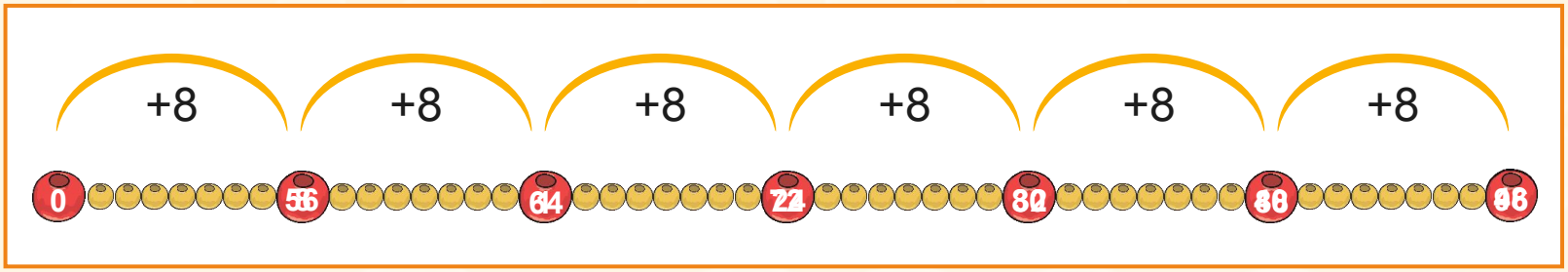
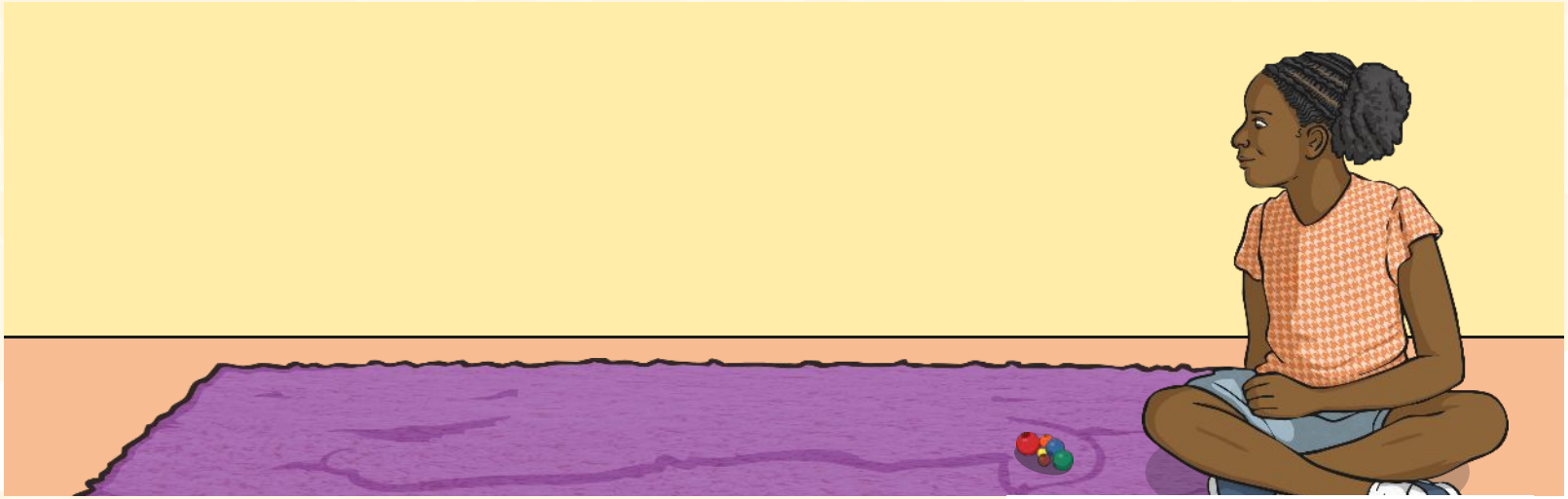
Making Jewellery – Counting Forwards

Let's have a go again but this time, Helena wants you to predict the next number before she counts.





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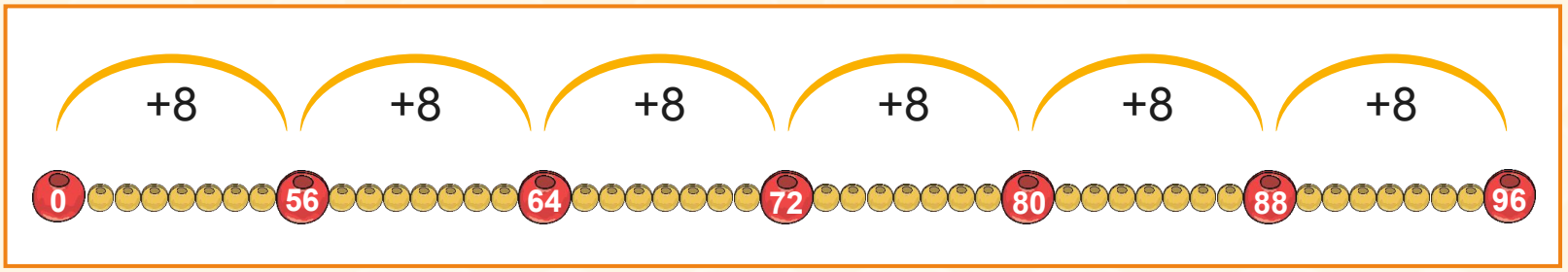
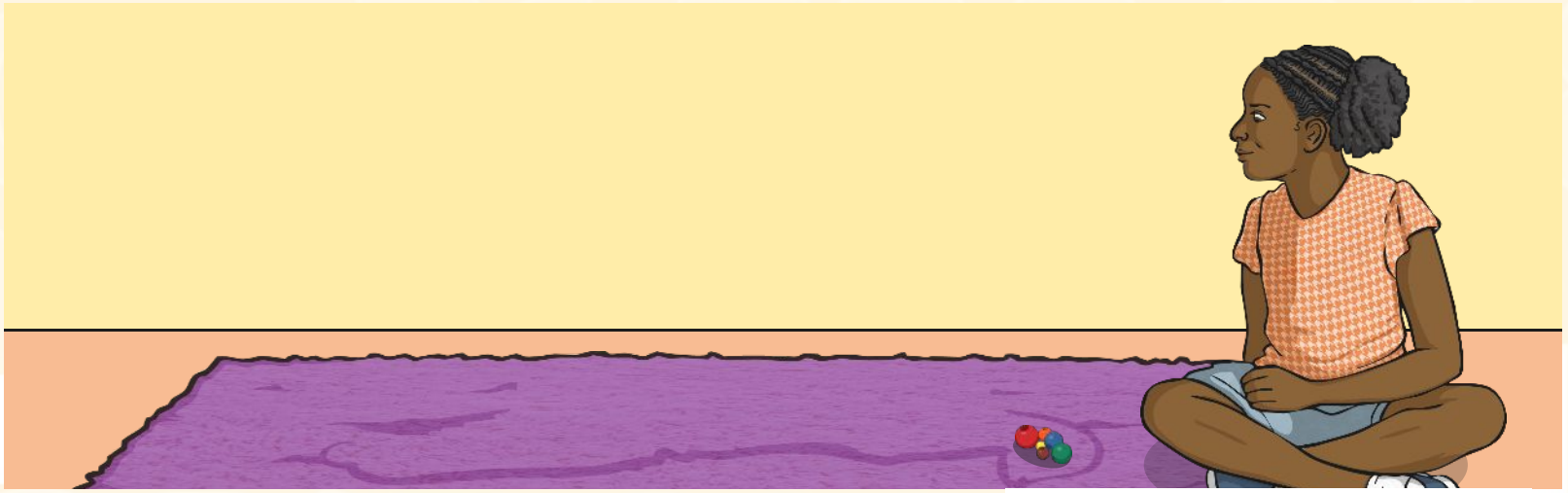
Making Jewellery – Counting Forwards

Helena wants you to practise counting up and down in multiples of 8 in your loudest voice.





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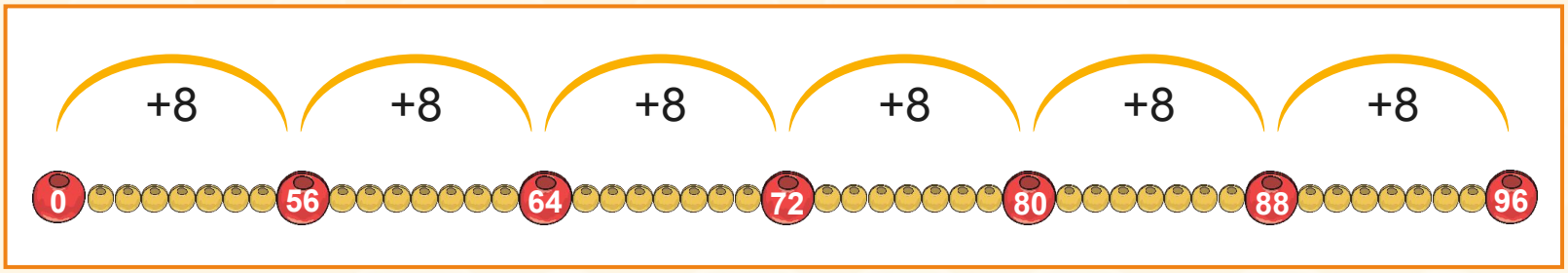
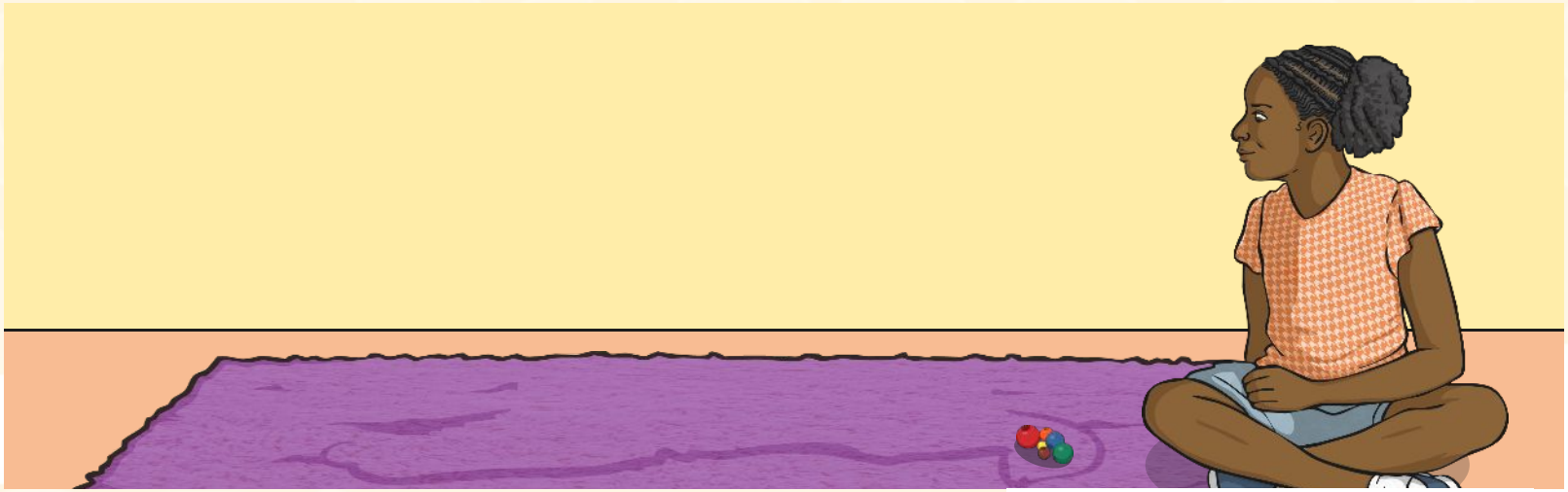
Making Jewellery – Counting Forwards

Helena wants you to practise counting up and down in multiples of 8 in your soft voice.





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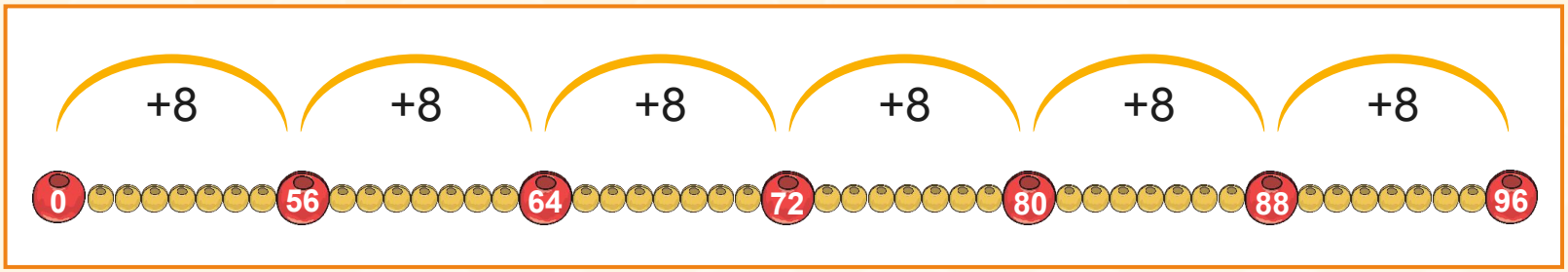
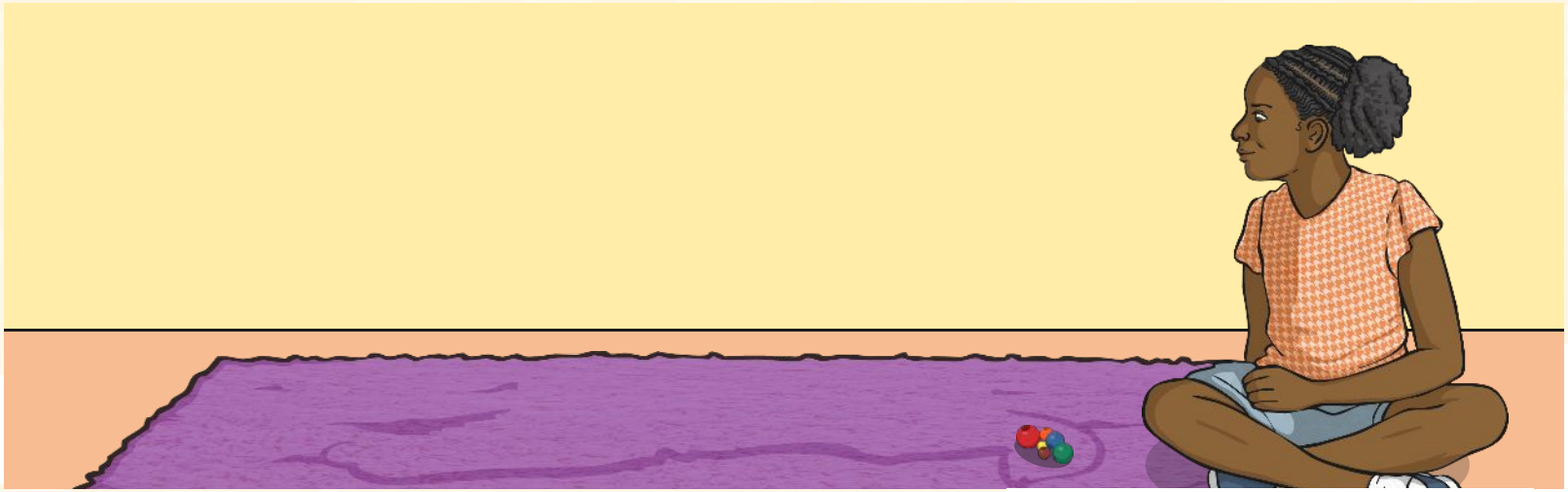
Making Jewellery – Counting Forwards

Helena wants you to practise counting up and down in multiples of 8 while pretending to thread beads onto a string.





Making Jewellery – Counting Forwards

Helena wants you to find out how many beads she will have next.

Can you predict how many beads she will have?

Can you predict what the next 3 numbers will be?

What do you notice about the multiples of 8?

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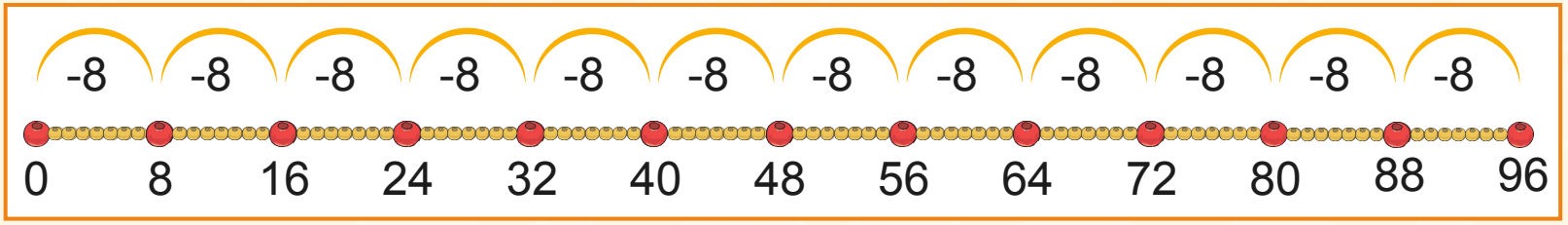
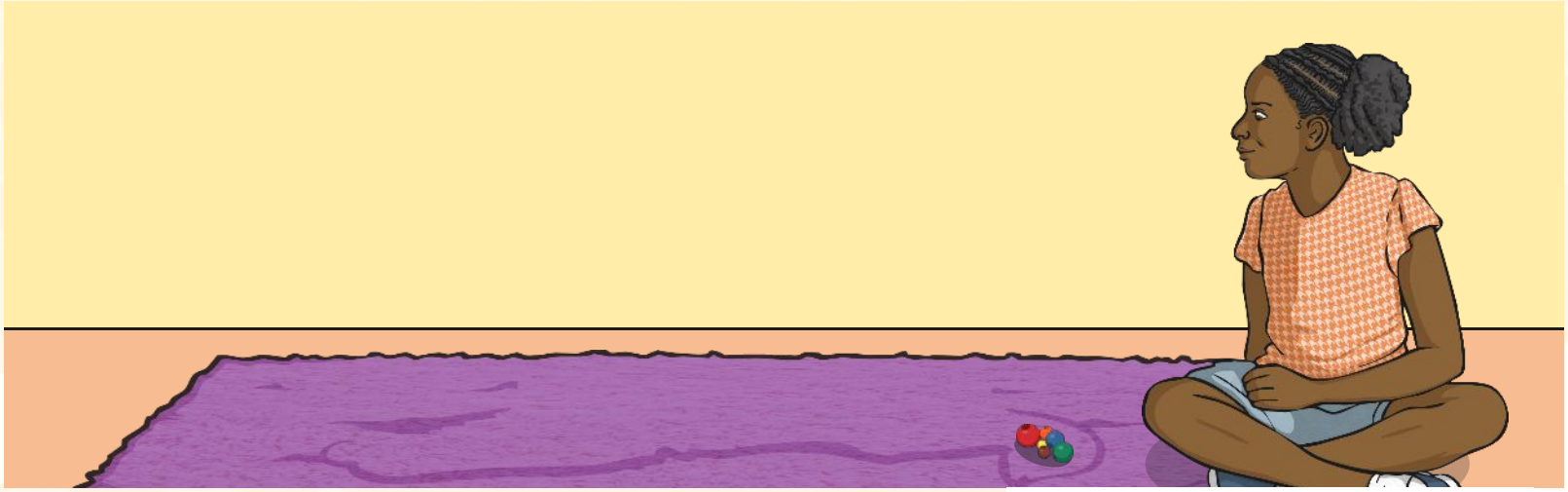
Making Jewellery – Counting Backwards

Helena is a whizz at counting forwards in multiples of eight, so she practises counting backwards.

Count along with her.





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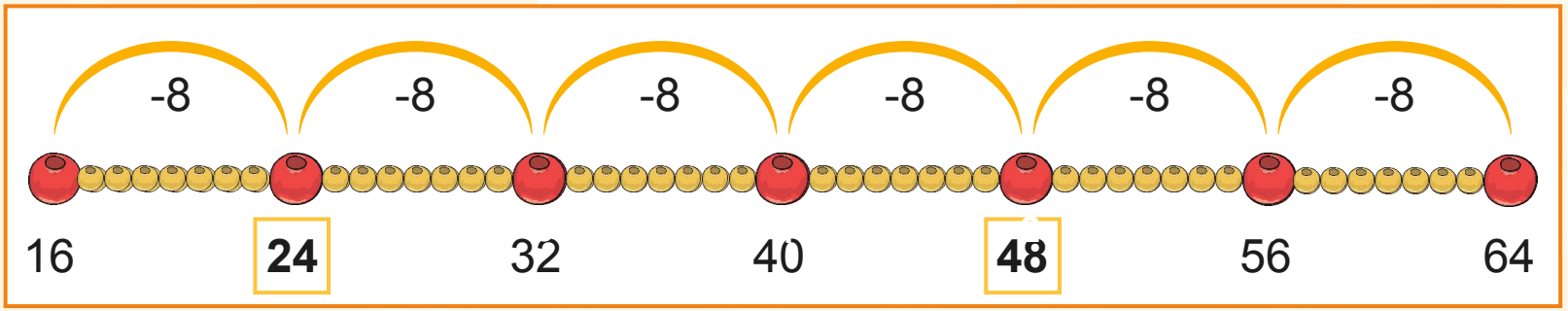
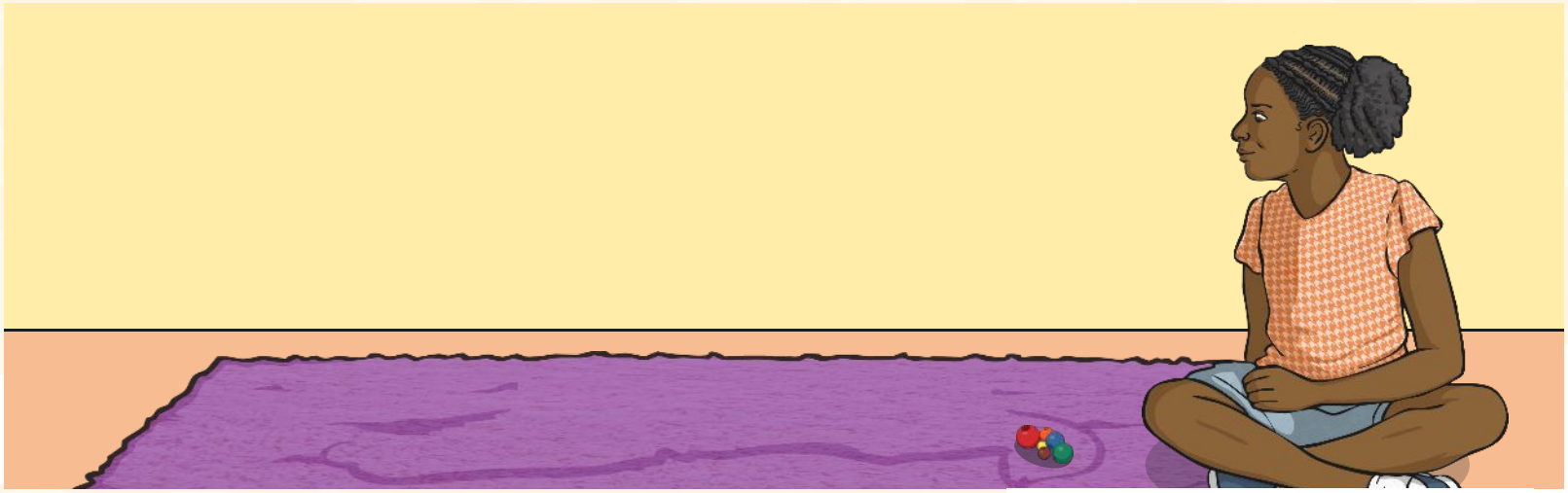
Making Jewellery – Counting Backwards

Whole Class

Help Helena to label the beads correctly. Count backwards from 64.





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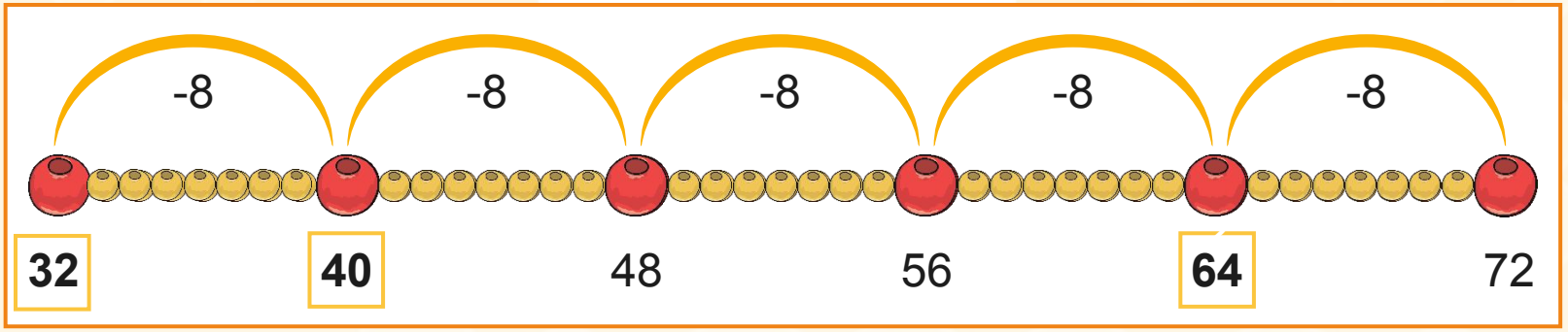
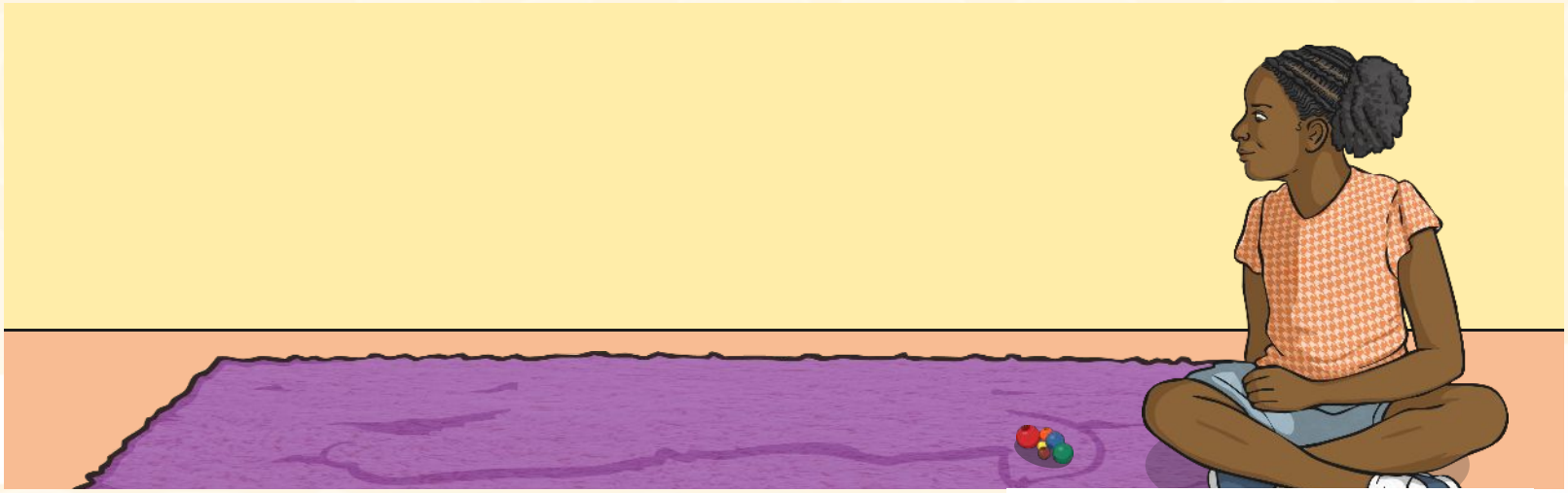
Making Jewellery – Counting Backwards

Whole Class

Help Helena to label the beads correctly. Count backwards from 72.





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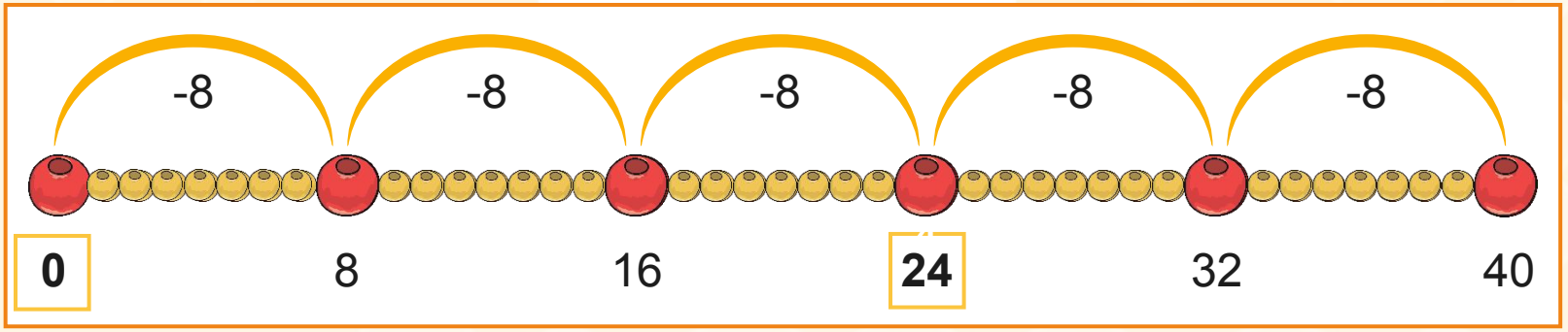
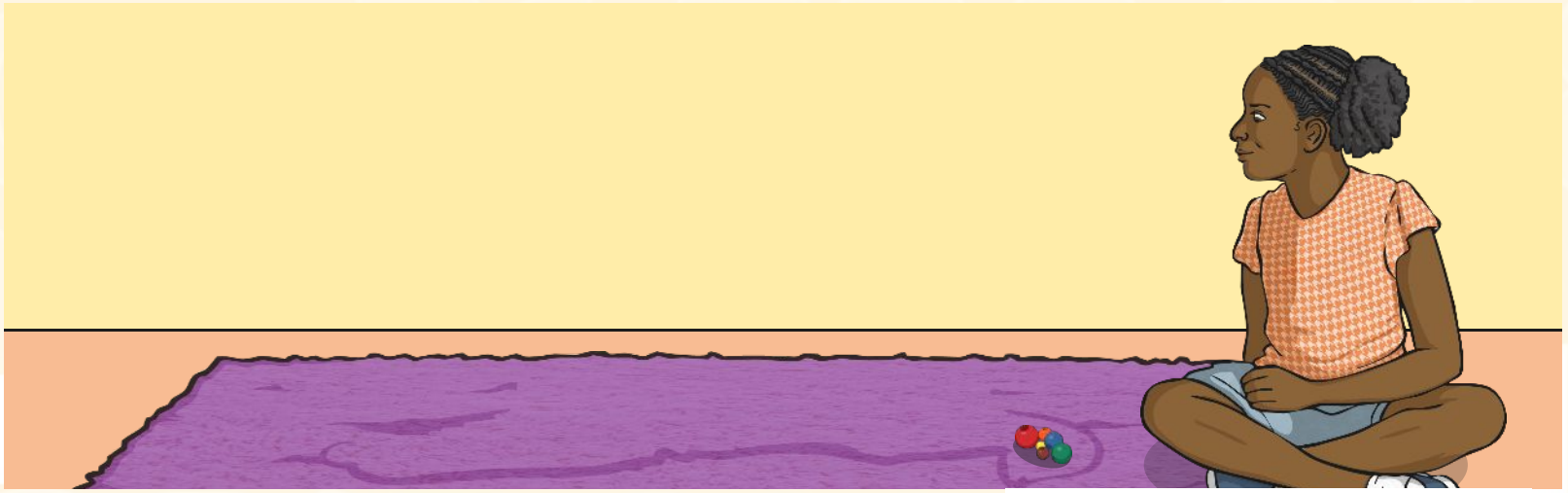
Making Jewellery – Counting Backwards

Whole Class

Help Helena to label the beads correctly. Count backwards from 40.





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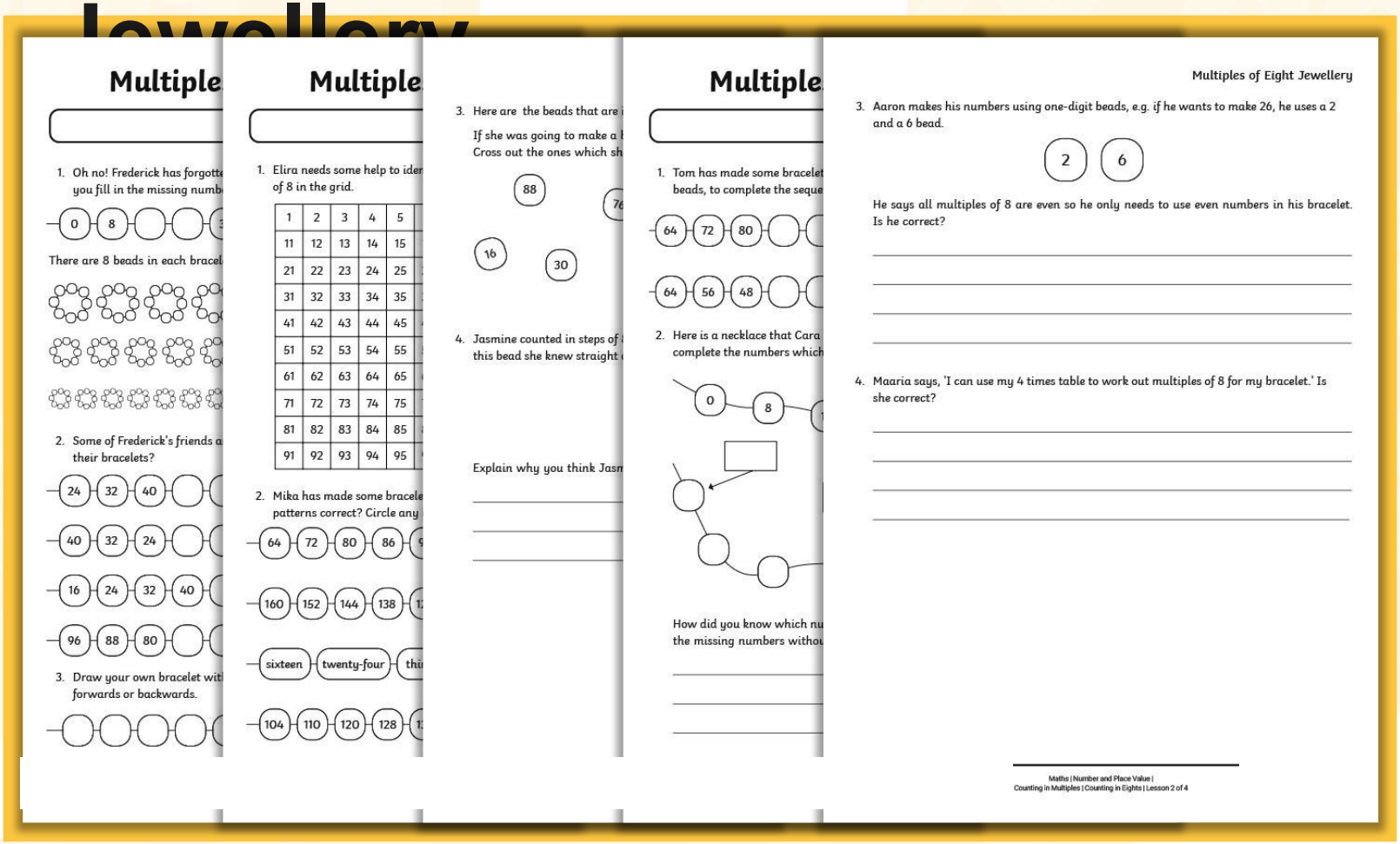
Multiples of Eight Jewellery



Multiple

1. Oh no! Frederick has forgotte you fill in the missing numb

0 8

There are 8 beads in each bracel

2. Some of Frederick's friends a their bracelets?

24 32 40

40 32 24

16 24 32 40

96 88 80

3. Draw your own bracelet wit forwards or backwards.

Multiple

1. Elira needs some help to ider of 8 in the grid.

1	2	3	4	5	
11	12	13	14	15	
21	22	23	24	25	
31	32	33	34	35	
41	42	43	44	45	
51	52	53	54	55	
61	62	63	64	65	
71	72	73	74	75	
81	82	83	84	85	
91	92	93	94	95	

2. Mika has made some bracele patterns correct? Circle any

64 72 80 86

160 152 144 138

sixteen twenty-four

104 110 120 128

3. Here are the beads that are

If she was going to make a Cross out the ones which sh

88

16 30

4. Jasmine counted in steps of this bead she knew straight

Explain why you think Jasm

Multiple

1. Tom has made some bracelet beads, to complete the seque

64 72 80

64 56 48

2. Here is a necklace that Cara complete the numbers which

0 8

How did you know which nu the missing numbers withou

Multiples of Eight Jewellery

3. Aaron makes his numbers using one-digit beads, e.g. if he wants to make 26, he uses a 2 and a 6 bead.

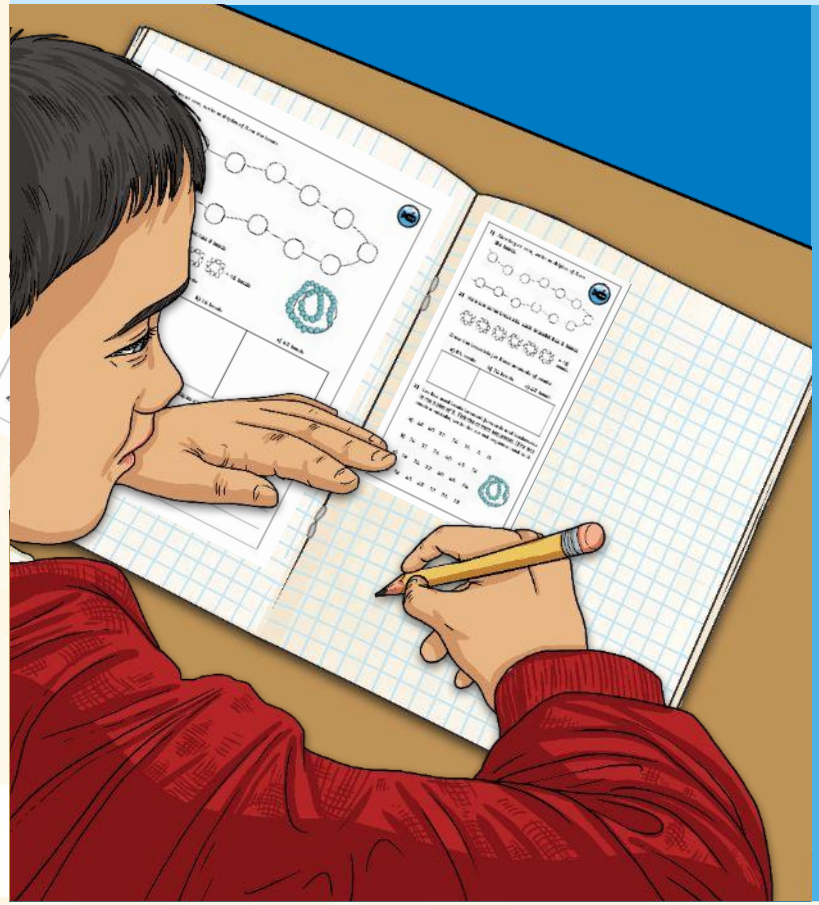
2 6

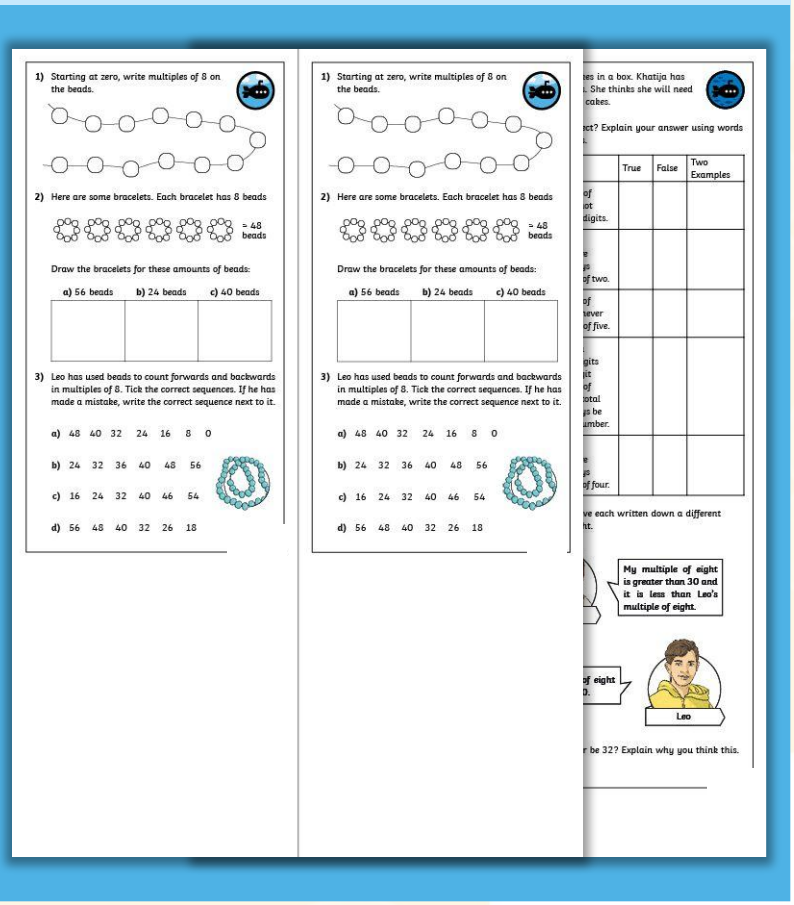
He says all multiples of 8 are even so he only needs to use even numbers in his bracelet. Is he correct?

4. Maaria says, 'I can use my 4 times table to work out multiples of 8 for my bracelet.' Is she correct?

Diving into Mastery

Dive in by completing your own activity!





1) Starting at zero, write multiples of 8 on the beads.

2) Here are some bracelets. Each bracelet has 8 beads

= 48 beads

Draw the bracelets for these amounts of beads:

a) 56 beads	b) 24 beads	c) 40 beads

3) Leo has used beads to count forwards and backwards in multiples of 8. Tick the correct sequences. If he has made a mistake, write the correct sequence next to it.

a) 48 40 32 24 16 8 0

b) 24 32 36 40 48 56

c) 16 24 32 40 46 54

d) 56 48 40 32 26 18

1) Starting at zero, write multiples of 8 on the beads.

2) Here are some bracelets. Each bracelet has 8 beads

= 48 beads

Draw the bracelets for these amounts of beads:

a) 56 beads b) 24 beads c) 40 beads

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a) 48 40 32 24 16 8 0

b) 24 32 36 40 48 56

c) 16 24 32 40 46 54

d) 56 48 40 32 26 18

	True	False	Two Examples

My multiple of eight is greater than 30 and it is less than Leo's multiple of eight.

Leo

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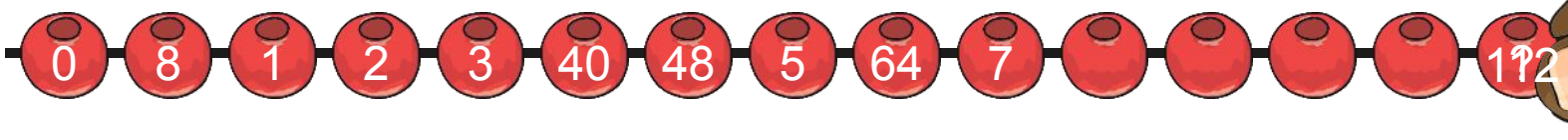
Broken

Helena continues to add beads to this bracelet. She adds five more beads. What would the number on the last bead be? How did you work this out?



Can you think of another way to work out the answer?

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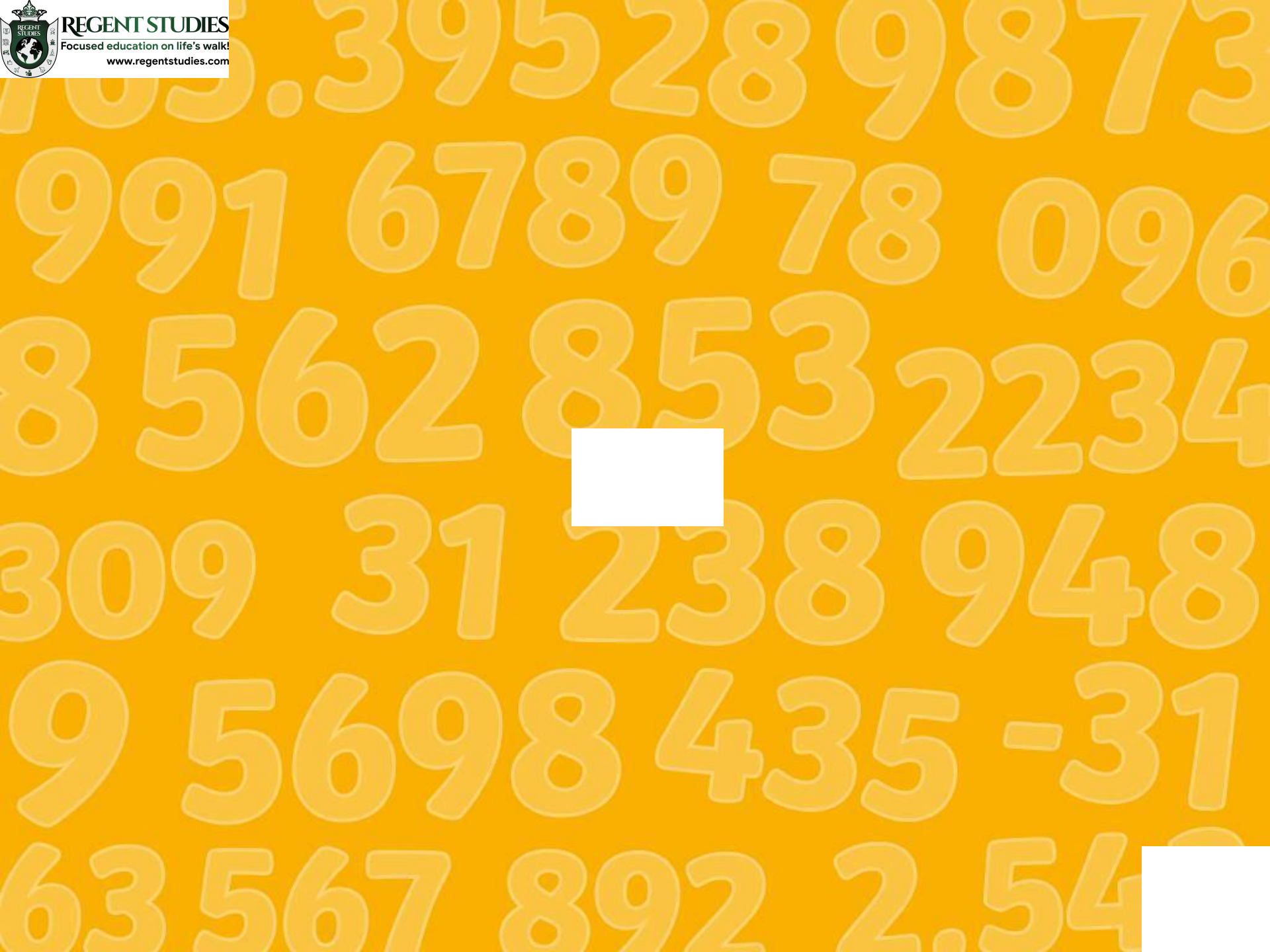
Aim

- To count in multiples of eight.

Success Criteria

- I can count forwards in steps of eight.
- I can count backwards in steps of eight.
- I can recognise multiples of eight.

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