

Reasoning and Problem Solving

Step 4: Odd and Even Numbers

National Curriculum Objectives:

Mathematics Year 2: (2C6) [Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers](#)

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Identify the possible numbers from a set of given parameters, includes pictorial support.

Expected Identify four or five possible coins from a given set of parameters.

Greater Depth Identify the possible odd or even combinations when rolling three dice.

Questions 2, 5 and 8 (Problem Solving)

Developing Choose the correct odd and even numbers required to balance the scales. Includes pictorials and digits.

Expected Choose the correct odd and even numbers required to balance the scales. Includes mixed representations, numerals and words.

Greater Depth Choose the correct odd and even numbers required to balance the scales when adding three numbers. Includes numbers in context and written in words.

Questions 3, 6 and 9 (Reasoning)

Developing Explain which is the odd one out from a variety of pictorials and numerals.

Expected Explain which is the odd one out from mixed pictorials, numerals and words.

Greater Depth Explain which is the odd one out from numbers used in the context of money.

More [Year 2 Multiplication and Division](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Odd and Even Numbers

Odd and Even Numbers

1a. Haydn has some stamps.

He has more than 10 but fewer than 17.
He can equally share his stamps into two groups.



How many stamps could he have?



PS

1b. Emma has some sweets.

She has more than 8 but fewer than 15.
She can equally share her sweets into two groups.

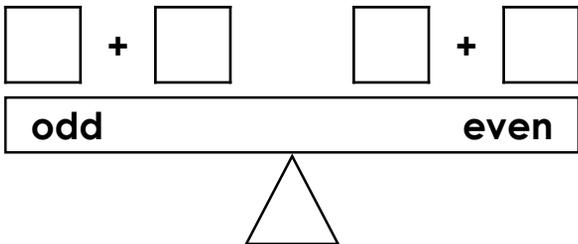


How many sweets could she have?



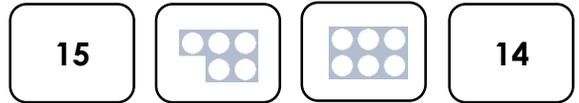
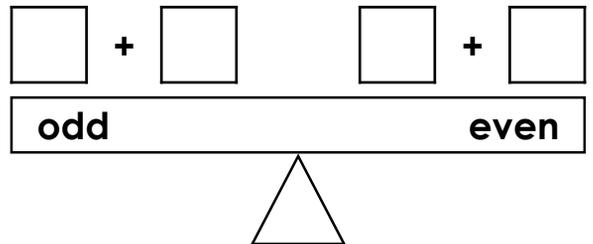
PS

2a. Choose the correct numbers to balance the scales.



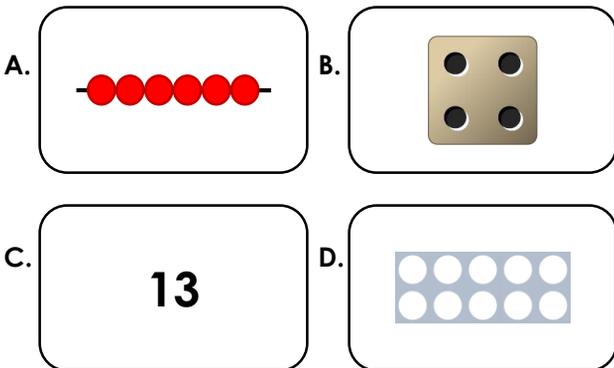
PS

2b. Choose the correct numbers to balance the scales.



PS

3a. Find the odd one out.

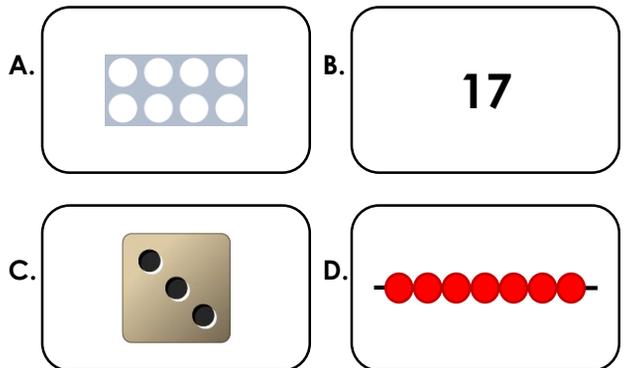


Explain your answer.



R

3b. Find the odd one out.



Explain your answer.



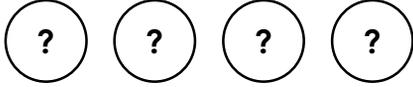
R

Odd and Even Numbers

Odd and Even Numbers

4a. Lucy collects 4 coins.

The value of her coins is an odd number.



What coins could Lucy have collected?



PS

4b. Rayhan collects 5 coins.

The value of his coins is an even number.

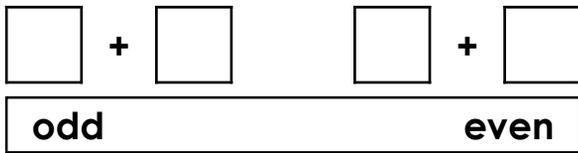


What coins could Rayhan have collected?



PS

5a. Choose the correct numbers to balance the scales.



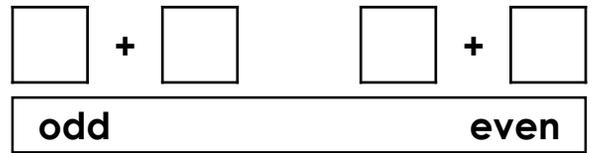
twenty-five 10 1  19

eight 36

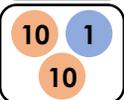


PS

5b. Choose the correct numbers to balance the scales.



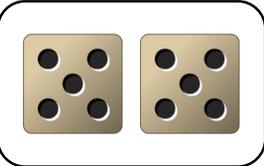
14 nine 8 sixteen



PS

6a. Find the odd one out.

A.  B. thirty-five

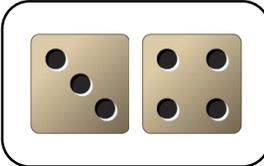
C. 67 D. 

Explain your answer.



R

6b. Find the odd one out.

A.  B. 53

C. forty-eight D. 

Explain your answer.



R

Odd and Even Numbers

Odd and Even Numbers

7a. Allie rolls three dice.

Her total is an even number between 9 and 13.

What numbers could Allie have rolled?



PS

7b. Emmett rolls three dice.

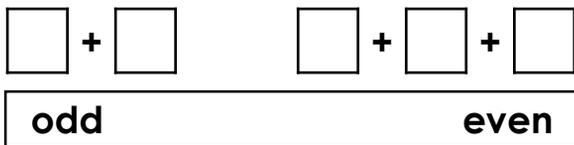
His total is an odd number between 8 and 12.

What numbers could Emmett have rolled?



PS

8a. Choose the correct numbers to balance the scales.

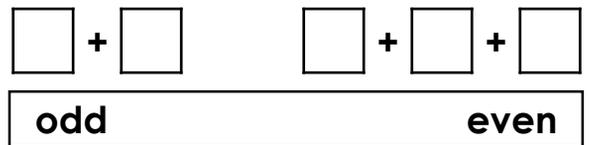


13		three	14
thirteen			



PS

8b. Choose the correct numbers to balance the scales.



	twenty-one	28	
13	four		



PS

9a. Find the odd one out.

A.	B. 27p
C.	D.

Explain your answer.



R

9b. Find the odd one out.

A.	B.
C. 45p	D.

Explain your answer.



R

Reasoning and Problem Solving Odd and Even Numbers

Developing

1a. 12, 14, 16

2a. $13 + 7 = 2 + 18$

3a. C because 13 is an odd number; 6, 4 and 10 are even numbers.

Expected

4a. Various answers, for example: 1p, 2p, 2p, 2p; 5p, 5p, 5p, 10p; 2p, 2p, 2p, 5p

5a. $11 + 19 = 22 + 8$

6a. A because 10 is an even number; 35, 67 and 5 are odd numbers.

Greater Depth

7a. Various answers, for example:

$1 + 4 + 5 = 10$, $2 + 4 + 4 = 10$, $6 + 5 + 1 = 12$

8a. $13 + 13 = 10 + 14 + 2$

9a. D because 20p is an even number; 5p, 27p and 1p are all odd numbers.

Reasoning and Problem Solving Odd and Even Numbers

Developing

1b. 10, 12, 14

2b. $15 + 5 = 6 + 14$

3b. A because 8 is an even number; 17, 3 and 7 are odd numbers.

Expected

4b. Various answers, for example: 5p, 5p, 5p, 5p, 10p; 2p, 2p, 2p, 2p, 2p

5b. $9 + 21 = 14 + 16$

6b. C because 48 is an even number; 7, 53 and 1 are odd numbers.

Greater Depth

7b. Various answers, for example:

$1 + 4 + 4 = 9$, $3 + 3 + 3 = 9$, $2 + 3 + 4 = 9$

8b. $21 + 13 = 28 + 2 + 4$

9b. C because 45p is an odd number; 20p, 50p and 10p are all even numbers.