

Multiples

1a. Florence is thinking of a number.



My number is a multiple of 5 and 10. It is even and between 35 and 55.

What could her number be?

Is there only one answer?



PS

Multiples

1b. Greg is thinking of a number.



My number is a multiple of 3. It is even and between 20 and 30.

What could his number be?

Is there only one answer?



PS

2a. Below is a section of a hundred square.

19	20	21	22
29	30	31	32
39	40	41	42

Why are some of the numbers shaded?
Why do some of the numbers have circles around them?



R

2b. Below is a section of a hundred square.

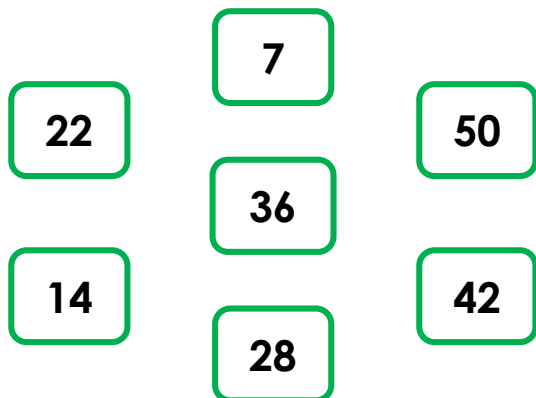
15	16	17	18
25	26	27	28
35	36	37	38

Why are some of the numbers shaded?
Why do some of the numbers have circles around them?



R

3a. Which is the odd one out?

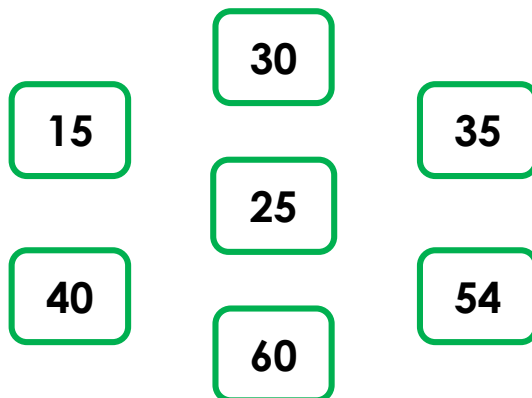


Explain how you know.



R

3b. Which is the odd one out?



Explain how you know.



R

Multiples

4a. Mia is thinking of a number.



My number is a multiple of 9 and 3. It is even and between 50 and 60.

What could her number be?

Is there only one answer?



PS

Multiples

4b. Alex is thinking of a number.



My number is a multiple of 11 and 2. It is even and between 20 and 50.

What could his number be?

Is there only one answer?



PS

5a. Below is a section of a hundred square.

42	43	44
52	53	54
62	63	64

Why are some of the numbers shaded?
Why do some of the numbers have circles around them?



R

5b. Below is a section of a hundred square.

62	63	64
72	73	74
82	83	84

Why are some of the numbers shaded?
Why do some of the numbers have circles around them?



R

6a. Which is the odd one out?

	24	
72		84
	120	
98		60
	48	

Explain how you know.



R

6b. Which is the odd one out?

	64	
12		16
	32	
40		58
	72	

Explain how you know.



R

Multiples

7a. Rachel is thinking of a number.



My number is a multiple of 3, 6 and 9. It is even and between 100 and 130.

What could her number be?

Is there only one answer?



PS

Multiples

7b. Monty is thinking of a number.



My number is a multiple of 11 and 7. It is even and between 130 and 160.

What could his number be?

Is there only one answer?



PS

8a. Below is a section of a hundred square.

104	105	106
114	115	116
124	125	126

Why are some of the numbers shaded?
Why do some of the numbers have circles around them?



R

8b. Below is a section of a hundred square.

96	97	98
106	107	108
116	117	118

Why are some of the numbers shaded?
Why do some of the numbers have circles around them?



R

9a. Which is the odd one out?

80	96	72
88	112	60
	104	

Explain how you know.



R

9b. Which is the odd one out?

63	98	77
84	21	70
	92	

Explain how you know.



R

Reasoning and Problem Solving Multiples

Developing

- 1a. 40 or 50
2a. Shaded – multiples of 3; Circles – multiples of 5 and 10
3a. 7 is the odd one out because it is not a multiple of 2.

Expected

- 4a. 54
5a. Shaded – multiples of 3; Circles – multiples of 7
6a. 98 is the odd one out because it is not a multiple of 12.

Greater Depth

- 7a. 108 or 126
8a. Shaded – multiples of 5; Circles – multiples of 4
9a. 60 is the odd one out because it is not a multiple of 8.

Reasoning and Problem Solving Multiples

Developing

- 1b. 24
2b. Shaded – multiples of 2; Circles – multiples of 5
3b. 54 is the odd one out because it is not a multiple of 5.

Expected

- 4b. 22 or 44
5b. Shaded – multiples of 8; Circles – multiples of 6 or 12
6b. 58 is the odd one out because it is not a multiple of 4.

Greater Depth

- 7b. 154
8b. Shaded – multiples of 3; Circles – multiples of 12
9b. 92 is the odd one out because it is not a multiple of 7.