



Name \_\_\_\_\_

Date \_\_\_\_\_

# Number patterns

Professor Proseod can do anything with numbers. Best of all, he loves to put them into patterns, but sometimes his numbers get up to mischief and are lost.

1 Complete each number pattern. Give the rule for the pattern.

a 12, 14, 16, 18, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

b 25, 23, 21, 19, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

c 10, 30, 50, 70, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

2 Circle the number that does not fit into the Professor's pattern. Give your reason.

a 15, 20, 25, 30, 35, 53, 45 \_\_\_\_\_

b 1, 3, 5, 7, 10, 11, 13 \_\_\_\_\_

c 20, 30, 40, 52, 60 \_\_\_\_\_

Whole numbers which are multiplied by 10 end in zero.  
Whole numbers which are multiplied by 2 are even.  
Whole numbers which are multiplied by 5 end in 5 or zero.



3 Look at these numbers.

115, 70, 35, 20, 16, 24, 65, 30, 120, 42, 85

Sort them into the correct columns. Some belong in more than one column.

a Multiples of 10

b Multiples of 2

c Multiples of 5

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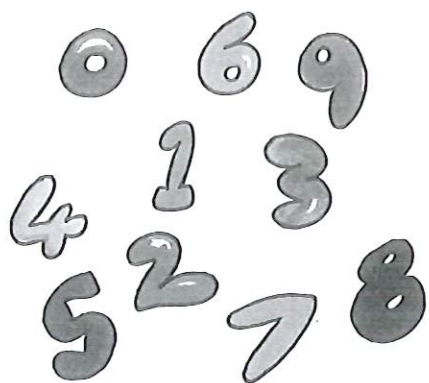
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4 What is special about 70, 30, 120 and 20? \_\_\_\_\_

# Numbers: odd and even

Look and learn



Odd numbers end in 1, 3, 5, 7 or 9.

Even numbers end in 0, 2, 4, 6 or 8.

'0' on its own stands for **nothing**. It is neither odd nor even.



Practice

Fill in the missing numbers to continue the patterns.

33	43	53	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
245	255	265	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
96	86	76	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
542	532	522	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
125	225	325	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
904	804	704	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>



Circle the odd numbers in these patterns.

Challenge

Which is the next odd number after 45?

Which is the next even number after 68?

Which even numbers are between 31 and 35?

Which odd numbers are between 52 and 56?

