

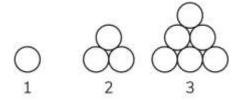
Worksheet

Name:	Subject:
Class:	Date:
a) Write down the 1st term of tb) Write down the 5th term of tc) Write down the 6th term of t	the sequencethe sequence
d) Write down the 10th term of	the sequence
e) Write down the 20th term of	the sequence
f) What is the term-to-term rule	∍?
g) What is the position to term	rule?
Q2) Complete the following se	equences:
5, 0, -5,,,	Term to term rule
20, 10, 0,,,,	Term to term rule
7, 5, 3,,,	Term to term rule
11, 8, 5,,,,	Term to term
420	Term to term

Q3) A sequence starts	at 16.		
5 is subtracted each		equence that i	s less than zero?
Tip: You might find	the number l	ine helpful.	
<1 · · · · · · · · · · · · · · · · · · ·	5	10	15
Q4) Look at the sec written below it.	ղuence below	. The number o	of dots in each pattern is
		• • • •	
		•	•
• •	•	•	•
3	5	7	9
a) Write down	the next four	numbers in the	e sequence.
3, 5, 7, 9,],	,	
b) What is the t	term-to-term	rule?	

Tip: Look at how you get from one term to the next.

Q5) Look at this sequence of patterns.



a Draw the next pattern in the sequence.

c) Complete the table for the sequence.

Pattern number	Number of circles
1	1
2	3
3	6
4	
5	
6	

d) What is the name for this sequence of patterns?

Tip: Think about the shape of the patterns.

Q6) Write the same number in both boxes to make this statement correct.

Q7) Here is a part of a sequence.					
5 10 15 20					
The sequence continues in the same way.					
Complete the sequence, then answer the following questions.					
a) Write down the 5th term of the sequence					
b) Write down the 8th term of the sequence					
c) Write down the 10th term of the sequence					
d) Write down the 20th term of the sequence					
e) Lily says that the number 520 will be in the sequence,					
Do you think she is right? Yes No Explain your answer.					
Q8) Write the sequence of square numbers. (1-144).					
Q9) Write the sequence of triangular numbers. (1-55)					
Q10) Write the sequence of the cube numbers. (1-125)					
Q12) Circle all the cube numbers.					
1 4 8 25 16 27 49 64 100 125					
Q13) Write a square number in each box to make the statement correct.					

Factors and multiples

Q1) Find the luciois of each horriber.
a) 9
b) 10
c) 18
d) 24
e) 36
2) Write all the factors of the following numbers and decide if the number
2) Write all the factors of the following numbers and decide if the number is a
is a
is a prime or composite.
is a
is a prime or composite.
is a prime or composite. a) 27:
is a prime or composite. a) 27:
is a prime or composite. a) 27:
is a prime or composite. a) 27:
is a prime or composite. a) 27:
is a prime or composite. a) 27:

Q3) F	ind all the factors of the following numbers.
a)	
b)	24
c)	30
	12
Q4) a)	Find all the common factors of 12 and 15
	Find the GCF (Greatest common factor) of 12 and 15.
	b) Find all the common factors of 15 and 30
	Find the GCF (Greatest common factor) of 15 and 30.
	c) Find all the common factors of 6 and 9
	Find the GCF (Greatest common factor) of 6 and 9.

Prime numbers are the numbers that has only 2 factors 1 and the number itself.

Prime Numbers

A natural number greater than 1 with no divisors other than 1 and itself.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Remember these facts about Prime Numbers!

There are no even numbers except 2.

There are no prime numbers ending in 5, except 5. The digits can't add up to 3 except 3 (digital root).

Composite numbers: the numbers that has more than 2 factors.

Q3) Circle all the prime numbers

1 2 6 8 9 10 11 15 17 36 37

Multiples of 4:,,,,,,,	Q4) a) Find the first three common multiples of 4 and 5.
The first three common multiples:	Multiples of 4:,,,,,,,
The first three common multiples:,, *****Important note: to find the first n common multiples first we list the first 10 multiples then we find the first common multiple and count by the first common multiple. b) Find the first three common multiples of 3 and 7. Multiples of 3:,,,,,,, _	Multiples of 5:,,,,,,,
****Important note: to find the first n common multiples first we list the first 10 multiples then we find the first common multiple and count by the first common multiple. b) Find the first three common multiples of 3 and 7. Multiples of 3:,,,,,,, _	The first common multiple:
10 multiples then we find the first common multiple and count by the first common multiple. b) Find the first three common multiples of 3 and 7. Multiples of 3:,,,,,,, _	The first three common multiples:,,
Multiples of 3:,,,,	•
Multiples of 7:,,,,,,,	b) Find the first three common multiples of 3 and 7.
The first common multiple: The first three common multiples:,,, c) Find the first three common multiples of 6 and 10. Multiples of 6:,,,,,,,	Multiples of 3:,,,,,,,
The first three common multiples:,, c) Find the first three common multiples of 6 and 10. Multiples of 6:,,,,,,, Multiples of 10:,,,,,,, The first common multiple:	Multiples of 7:,,,,,,,
c) Find the first three common multiples of 6 and 10. Multiples of 6:,,,,,,,	The first common multiple:
Multiples of 6:,,,,,,,	The first three common multiples:,,
Multiples of 10:,,,,,,,	c) Find the first three common multiples of 6 and 10.
The first common multiple:	Multiples of 6:,,,,,,,
	Multiples of 10:,,,,,,,,
The first three common multiples:,,	The first common multiple:
	The first three common multiples:,,