8	Stig on Tour
_	Activity Sheet



ame:	Class:
Rea	d the facts below. Cross out the verb that does not agree with the subject.
Ō	Romans [were /] remarkable engineers and architects. They built amphitheatres and roads that we can still see evidence of today.
0	Egyptian kings, such as Tutankhamun, [were] buried in tombs inside giant pyramids.
€	When stars collapse in on themselves, their gravitational pull increases. This creates a dense space where nothing, not even light, can escape. These areas in space [
Ø	Queen Elizabeth II [/ is] Britain's longest reigning monarch. Interestingly, she [/ is] the only person in the UK who is legally allowed to drive without a driving licence.
6	Virtual reality [is] a computerised environment made up of three-dimensional images.
0	Turtles [have] an extremely long life span, often living past one hundred.
0	Black bears [
8	Hong Kong [has / hee] over 300 skyscrapers, more than any



■ EducationCity

Activity Sheet: Answer Sheet

Name:

Class:

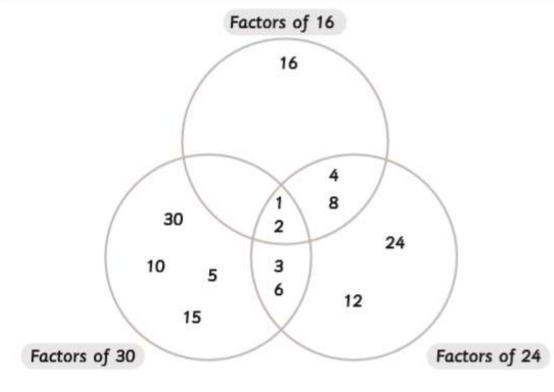
Sort the multiples into the correct circles.

Multiples of 4 12 32 20 44

Multiples of 7 91 21 49 70 42

Multiples of 9 45 90

Complete the Venn diagram below with the factors of 16, 30 and 24.







Name: Class:

Underline the incorrect verbs in the text.

visit spend

It was a warm and sunny Saturday, perfect for a <u>visited</u> to the local farm park. Stig and Granny thought it would be a fun way to <u>spending</u> the day together. Stig loved the animals, and Granny <u>enjouina</u> visiting the tea rooms.

when they arrive, they were just in time for the tractor ride, which taked them all round the farm. The tractor bumped and bounced over the rough farm paths, and they clung onto the straw bales they were sitting on. The noise of the engine caused the sheep to gambled across the fields, and the goats to run into their shelters. After the ride, picking straw from their clothes, Granny and Stig headed off to see the Shetland ponies in their paddocks.

finished

After they finishing stroking the ponies, Granny was ready for her afternoon tea. Stig didn't want to miss out on something delicious to eaten, so went with her to the café. They are scones and jam and drunk homemade lemonade.

drank

Went

Before they left, they goes to saw the animals in the barn. Stig holded the rabbits and hamsters. Granny couldn't be persuaded to buy him one though!





Newton and Gravity Answers

- When was Isaac Newton born?
 Isaac Newton was born in 1643.
- 2. Why do you think the outbreak of plague forced Newton to move from Cambridge back to Woolsthorpe Manor?
 - He was forced to move away from the city when Plague broke out because he would be less likely to catch the infectious disease in the country.
- What inspired Newton to explore the force of gravity?
 The sight of an apple falling from a tree inspired Newton to explore the force of gravity.
- 4. How did Newton describe the way gravity pulls objects?
 He described gravity as being like a 'drawing power' from the centre of the Earth.
- What did Newton discover about the way gravity affects the Moon?
 He discovered that the Earth exerts its gravitational force on the moon and this causes it to stay in orbit.
- 6. Why do you think forces are measured in newtons with a newton metre? Newtons and the newton meter are named after Isaac Newton because of the discoveries he made to do with forces.
- 7. Look at this phrase: Even Albert Einstein, writing in 1927, 200 years after Newton's death, described Newton as a 'shining spirit'. What does the word 'Even' make you think about Albert Einstein?
 - It makes me think that Albert Einstein must have had an impressive mind himself too.
- 8. Why do you think the National Trust have kept and looked after the apple tree in the gardens of Woolsthorpe Manor?
 - Example answer: I think the tree and gardens have been preserved because the discoveries that Newton made were significant and so the place where the ideas were first formed should be kept safe for people to see when they learn about Isaac Newton.



Bakers Dozen Part 2

EducationCity

Activity Sheet: Answer Sheet

Name: Class:

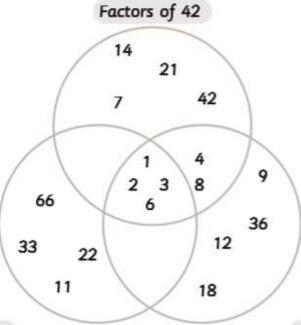
Sort the multiples into the correct circles.

Multiples of 3 12 48 93 21 54 18 42

Multiples of 11 44 77 121 88

Multiples of 5 65 70 20

Complete the Venn diagram below with the factors of 42, 66 and 36.



Factors of 66

Factors of 36



Name: Circle all the square and cube numbers. 135 25 35 54 64 81 121 144 162 1,000 175 216 512 46 64 125 277 Complete the following calculations. 3 I am a 2 digit square number. One of my factors is a cube number. 81 The product of my digits is 8. What number am I? 4 I am a two-digit square number, greater than 20. 49 The product of my two digits is 36. What number am I? I am a three-digit cube number. 125 Divide me by 5 to get a square number. What number am I? 6 I am a 3-digit cube number with a factor of 6. 216 What number am I? I am a 2-digit square number. 16 If you multiply me by 4, you get a 2-digit cube number. What number am I? 8 I am a 2-digit square number. 64 Multiply me by 8 to get a 3-digit cube number. What number am I? I am a 2-digit square number, more than 50. 64 I am also a multiple of a cube number. What number am I? I am a 4-digit cube number. 1,000 I am a product of 10 and a 3-digit square number. What number am I?

EducationCity

Name: Class:

Help the Carbots to find Stig and his friends by plotting their path through the numbers. Be careful though, the Carbots can only travel on prime numbers and cannot travel diagonally.



I	3	7	23	75	38	72	2	5
	4	6	83	81	41	47	97	49
Ì	32	45	61	11	13	77	80	51





6	12	15	21	16	20	85	91
31	11	37	41	27	35	72	48
18	22	57	19	71	7	11	19





	79	61	12	78	81	7	19	31
١	80	97	15	18	13	17	100	45
	8	67	73	5	3	27	98	99



Use the space below to work out which numbers are prime numbers.

8 x 7 = 56 44 ÷ 4 = 11 3 x 3 = 9 3 x 4 = 12 5 x 4 = 20 4 x 4 = 16 1 x 1 = 1 5 x 3 = 15 48 ÷ 6 = 8 3 x 8 = 24 28 ÷ 4 = 7 60 ÷ 12 = 5 3 x 6 = 18 36 ÷ 3 = 12 4 x 7 = 28 4 x 11 = 44 4 x 5 = 20 3 x 5 = 15 9 x 7 = 63 9 x 11 = 99	8 x 12 = 96 8 x 8 = 64 54 ÷ 9 = 6 40 ÷ 8 = 5 6 x 3 = 18 6 x 12 = 72 3 x 6 = 18 4 x 12 = 48 9 x 5 = 45 9 x 12 = 108 8 x 9 = 72 12 x 12 = 144 10 ÷ 5 = 2
$5 \times 4 = 20$ $4 \times 4 = 16$ $1 \times 1 = 1$ $5 \times 3 = 15$ $48 \div 6 = 8$ $3 \times 8 = 24$ $28 \div 4 = 7$ $60 \div 12 = 5$ $3 \times 6 = 18$ $36 \div 3 = 12$ $4 \times 7 = 28$ $4 \times 11 = 44$ $4 \times 5 = 20$ $3 \times 5 = 15$	54 ÷ 9 = 6 40 ÷ 8 = 5 6 x 3 = 18 6 x 12 = 72 3 x 6 = 18 4 x 12 = 48 9 x 5 = 45 9 x 12 = 108 8 x 9 = 72 12 x 12 = 144
$1 \times 1 = 1$ $5 \times 3 = 15$ $48 \div 6 = 8$ $3 \times 8 = 24$ $28 \div 4 = 7$ $60 \div 12 = 5$ $3 \times 6 = 18$ $36 \div 3 = 12$ $4 \times 7 = 28$ $4 \times 11 = 44$ $4 \times 5 = 20$ $3 \times 5 = 15$	40 ÷ 8 = 5 6 x 3 = 18 6 x 12 = 72 3 x 6 = 18 4 x 12 = 48 9 x 5 = 45 9 x 12 = 108 8 x 9 = 72 12 x 12 = 144
48 ÷ 6 = 8 3 x 8 = 24 28 ÷ 4 = 7 60 ÷ 12 = 5 3 x 6 = 18 36 ÷ 3 = 12 4 x 7 = 28 4 x 11 = 44 4 x 5 = 20 3 x 5 = 15	6 x 3 = 18 6 x 12 = 72 3 x 6 = 18 4 x 12 = 48 9 x 5 = 45 9 x 12 = 108 8 x 9 = 72 12 x 12 = 144
$28 \div 4 = 7$ $60 \div 12 = 5$ $3 \times 6 = 18$ $36 \div 3 = 12$ $4 \times 7 = 28$ $4 \times 11 = 44$ $4 \times 5 = 20$ $3 \times 5 = 15$	6 x 12 = 72 3 x 6 = 18 4 x 12 = 48 9 x 5 = 45 9 x 12 = 108 8 x 9 = 72 12 x 12 = 144
$3 \times 6 = 18$ $36 \div 3 = 12$ $4 \times 7 = 28$ $4 \times 11 = 44$ $4 \times 5 = 20$ $3 \times 5 = 15$	3 x 6 = 18 4 x 12 = 48 9 x 5 = 45 9 x 12 = 108 8 x 9 = 72 12 x 12 = 144
4 x 7 = 28	4 x 12 = 48 9 x 5 = 45 9 x 12 = 108 8 x 9 = 72 12 x 12 = 144
4 x 5 = 20 3 x 5 = 15	9 x 5 = 45 9 x 12 =108 8 x 9 = 72 12 x 12 =144
	9 x 12 =108 8 x 9 = 72 12 x 12 =144
9 x 7 =63 9 x 11 =99	8 x 9 = 72 12 x 12 =144
	2 12 x 12 =144
42 ÷ 7 =6 4 x 8 = 32	
45 ÷ 5 =9 12 x 11 = 132	10 ± 5 - 2
5 x 6 = 30 9 ÷ 1 = 9	10 7 5 - 2
3 x 7 = 21 10 x 3 = 30	6 x 6 = 36
2 x 9 = 18 9 x 9 = 81	90 ÷ 10 = 9
36 ÷ 9 = 4 8 x 3 = 24	10 x 10 = 100
121 ÷ 11 = 11	10 x 3 = 30
1 x 7 = 7 66 ÷ 6 = 11	48 ÷ 4 = 12
8 x 4 = 32 1 x 10 =10	54 ÷ 6 = 9
99 ÷ 9= 11 6 x 5 = 30	108 ÷ 9 = 12
5 x 7 = 35 5 x 11 =55	5 x 12 = 60
9 x 2 = 18 2 x 8 = 16	8 x 10 = 80
7 x 7 =49 7 x 11 = 77	7 x 12 =84
11 x 7 =77	11 x 12 = 132
6 x 10 = 60 63 ÷ 7 = 9	3 x 9 = 27
3 x 7 = 21 3 x 11 = 33	3 x 12 = 36
8 x 5 = 40 4 x 10 = 40	18 ÷ 2 = 9
2 x 11 = 22 6 x 9 = 54	10 x 10 = 100
8 x 7 = 56 60 ÷ 5 = 12	12 ÷ 1 = 12
4 x 7 = 28 84 ÷ 7 = 12	9 x 7 = 63
88 ÷ 8=11 10 x 11 = 110	72 ÷ 6 = 12
10 x 7 = 70	10 x 12 = 120
3 x 12 = 36	36 ÷ 3 = 12

Master Master Challenge

72 ÷ 8 = 9	6 ÷ 1 = 6	56 ÷ 7 = 8	18 ÷ 2 = 9
64 ÷ 8 = 8	18 ÷ 3 = 6	24 ÷ 3 = 8	40 ÷ 8 = 5
28 ÷ 7 = 44	30 ÷ 6 = 5	8 ÷ 8 = 1	56 ÷ 7 = 8
9 ÷ 9 = 1	32 ÷ 8 = 4	12 ÷ 4 = 3	24 ÷ 6 = 4
54 ÷ 9 = 6	12 ÷ 4 = 3	$35 \div 7 = 5$	12 ÷ 2 = 6
40 ÷ 8 = 5	18 ÷ 6 = 3	15 ÷ 3 = 3	9 ÷ 1 = 9
1 ÷ 1 = 1	16 ÷ 8 = 2	56 ÷ 8 = 7	35 ÷ 7 = 5
63 ÷ 9 = 7	2 ÷ 2 = 1	36 ÷ 4 = 9	42 ÷ 6 = 7
27 ÷ 9 = 3	36 ÷ 4 = 9	9 ÷ 1 =9	15 ÷ 5 = 3
16 ÷ 2 = 8	54 ÷ 6 = 9	12 ÷ 6 = 2	6 ÷ 1 = 6
7 ÷ 1 = 7	72 ÷ 9 =8	36 ÷ 9 = 4	9 ÷ 9 = 1
12 ÷ 3 = 4	14 ÷ 2 = 7	30 ÷ 5 = 6	24 ÷ 6 = 4
27 ÷ 3 = 9	24 ÷ 4 = 6	6 ÷ 1 = 6	45 ÷ 5 = 9
10 ÷ 2 = 5	30 ÷ 6 = 5	48 ÷ 6 = 8	8 ÷ 4 = 2
16 ÷ 4 = 4	45 ÷ 9 = 9	2 ÷ 2 = 1	7 ÷ 1 = 7
3 ÷ 3 = 1	16 ÷ 4 = 4	21 ÷ 7 = 3	9 ÷ 9 = 1
18 ÷ 3 = 6	21 ÷ 7 = 3	$9 \div 3 = 3$	30 ÷ 5 = 6
40 ÷ 5 = 8	81 ÷ 9 = 9	30 ÷ 6 = 5	32 ÷ 4 = 8
32 ÷ 4 = 8	16 ÷ 2 = 8	14 ÷ 2 = 7	12 ÷ 3 = 4
24 ÷ 4 = 6	$35 \div 5 = 7$	56 ÷ 8 = 7	63 ÷ 9 = 7
45 ÷ 5 = 9	49 ÷ 7 = 7	36 ÷ 4 = 9	24 ÷ 8 = 3
40 ÷ 5 = 8	54 ÷ 9 = 6	18 ÷ 9 = 2	25 ÷ 5 = 5
20 ÷ 4 = 5	15 ÷ 3 = 5	20 ÷ 5 = 4	32 ÷ 4 = 8
48 ÷ 6 = 8	20 ÷ 5 = 4	24 ÷ 8 = 3	36 ÷ 9 = 4
54 ÷ 6 = 9	28 ÷ 7 = 4	24 ÷ 4 = 6	48 ÷ 8 = 6