

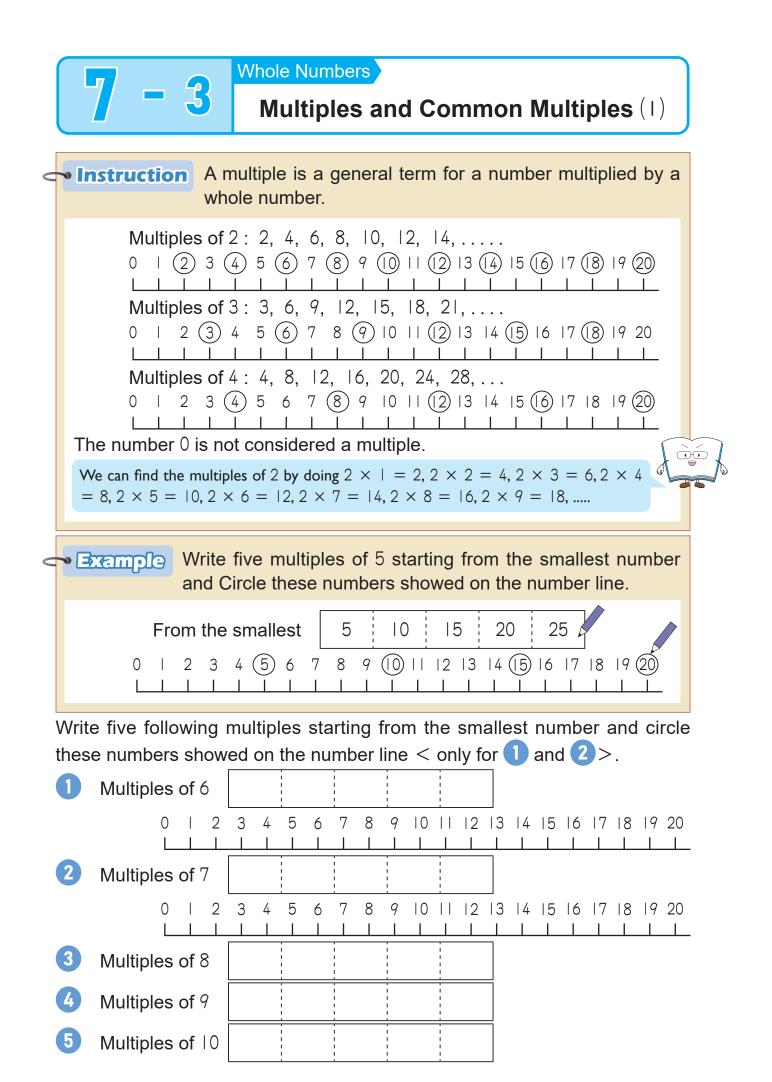
A group of children is split into two teams. Each child draws a numbered card to determine which team they belong to.

BLUE     I     3     5								
1 Which team does the child who draw a 16 card belong to?								
2 Which team does the child who draw a 17 card belong to?								
3 Which team does the child who draw a 21 card belong to?								
What kind of numbers are on the blue team and the red team?								
Blue Team Red Team								
<b>5</b> Circle the numbers on the following number line, which belong to the blue team.								
0   2 3 4 5 6 7 8 9  0     2  3  4  5  6  7  8  9 20 2  22								

Whole	Numbers	
7 - 2	Even and Odd Numbers (2)	
Instruction     Whole num	nbers can be either <b>odd numbers</b> or <b>even numbe</b>	rs.
Even Numbers: These numbers can be divide without a remainder.	ed by 2 2 without a remainder. 0 is an even number.	
$0 \longrightarrow 0 \div 2 =$ $2 \longrightarrow 2 \div 2 =$ $4 \longrightarrow 4 \div 2 =$ $6 \longrightarrow 6 \div 2 =$ $8 \longrightarrow 8 \div 2 =$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Even Numbers:           0         2         3         4         5         7           1         1         1         1         1         1         1	Ave an alternating pattern on the number line.         Odd Numbers:       "0" is an even number because it is divisible by         8       9       10       11       12       13       14       15       16       17       18       19       20       21	
	as following numbers as even or odd numbers	-
• Example Categorize th	ne following numbers as even or odd numbers	- S.
	42 87 342	5.
27 Even Numbers 42, 3 What digit should we look	42 87 342	5.
27 Even Numbers 42, 3 What digit should we lood divided by 2 without a rema	42 87 342 342 Odd Numbers 27, 87 k at to decide whether or not a number can be	
27 Even Numbers 42, 3 What digit should we lood divided by 2 without a rema	42 87 342 342 Odd Numbers 27, 87 k at to decide whether or not a number can be inder? We can look at the digit in the ones place!!	
27 Even Numbers 42, 3 What digit should we lood divided by 2 without a rema	42 87 342 342 Odd Numbers 27, 87 k at to decide whether or not a number can be inder? We can look at the digit in the ones place!!	
27 Even Numbers 42, 3 What digit should we look divided by 2 without a rema 1 Categorize the followin 12 35 Even Numbers	42       87       342         342       Odd Numbers       27, 87         k at to decide whether or not a number can be inder? We can look at the digit in the ones place!!       60         60       107       523       1268	
27 Even Numbers 42, 3 What digit should we look divided by 2 without a rema 1 Categorize the followin 12 35 Even Numbers	42       87       342         342       Odd Numbers       27, 87         k at to decide whether or not a number can be inder? We can look at the digit in the ones place!!       60         107       523       1268         Odd Numbers       1268	

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7 - 4 Whole Numbers Multiples and Common Multiples	; (2)
Instruction Multiples of 2 and multiples of 3 can be shown as for	llow
Multiples of 2 : 2, 4, 6, 8, 10, 12, 14, 16, 18, Multiples of 3 : 3, 6, 9, 12, 15, 18, 21,	•
<ul> <li>6, 12 and 18 are numbers found in both groups. These numbers are carcommon multiples of 2 and 3.</li> <li>6 is the smallest common multiple number of 2 and 3. This is called the locommon multiple.</li> </ul>	
• Example Write the first ten multiples of 4 and the first 10 multiples Find three common multiples of 4 and 5. Find the common multiples of 4 and 5.	
Multiples of 4 4 8 12 16 20 24 28 32 36	40
Multiples of 5 5 10 15 20 25 30 35 40 45	50
Common multiples of 4 and 5 20 40 60 Least common multiple of 4 and 5	20
Continue finding the multiples of 4 and 5. We can find 3 common multiples.	
Write the first ten multiples of 2 and the first ten multiples of 4. Fin common multiples of 2 and 4. Find the least common multiple of 2 a	
Multiples of 2	
Multiples of 4	
Common multiples of 2 and 4 Least common multiple of 2 and 4	
Write the first ten multiples of 6 and the first ten multiples of 8. Fin common multiples of 6 and 8. Find the least common multiple of 6 a	
Multiples of 6	
Multiples of 8	
Common multiples of 6 and 8 Least common multiple of 6 and 8	
Continue finding the multiples of 6 and 8. We can find 3 common multiples.	

7 - 5	Whole Numbers	mmon Factors (1)					
Instruction A factor is a number that can divide the number in question evenly with no remainders.							
Factors of 8 : I, Factors of I2: I,		Factor 12 Multiple					
Factors of 15 : 1, Factors of 7 : 1,	3, 5, 15 7 ]	Factors and multiples are related to each other. 4 is a factor of  2.  2 is a multiple					
Factors of  3:  ,	Brime Numbers	of 4.					
Prime numbers ha	ve only tow factors:   and the nu	mber itself.					
0 (1) (2) (3) 4 3 × 6 =	x  8 =  8						
	numbers on the number line.						
Factors of 6	0   2 3 4 5 6 7	8 9 IO I I I					
2 Factors of 10	0   2 3 4 5 6 7 	8 9 IO I I I					
3 Factors of 14	0   2 3 4 5 6 7	8 9  0     2  3  4  5 					
4 Factors of 20							
	5 6 7 8 9 10 11 12	3  4  5  6  7  8  9 20 2 					
5 Factors of 24							
0   2 3 4 5	6 7 8 9 10 11 12 13 14 15						

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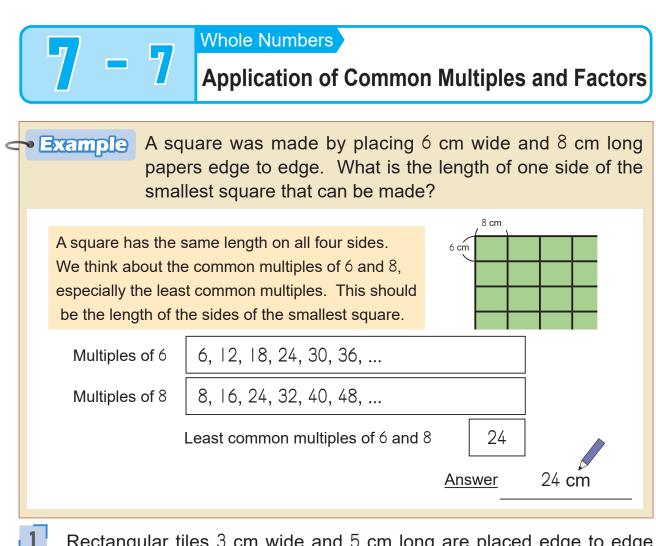
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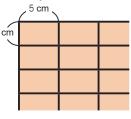
7 – 7 Whole Numbers					
<b>Factors and Common Factors</b> (2)					
Instruction Factors of 8 and factors of 12 are as follows;					
Factors of 8: $(1, 2, 4, 8)$					
Factors of 8 : $ , 2, 4, 8$ Factors of $ 2 :  , 2, 3, 4, 6,  2$					
Factors such as 1, 2 and 4 that are factors of both 8 and 12 are called <b>common</b>					
factors of 8 and 12. The largest common factor is called the greatest common factor.					
The largest common factor is called the greatest common factor.					
Write the factors of 15 and the factors of 18. Then, write the common factors and the greatest common factor.					
Factors of 15 1, 3, 5, 15					
Factors of 18 1, 2, 3, 6, 9, 18					
Common factors of 15 and 18 1, 3 Greatest common factor of 15 and 18 3					
Write the factors of $ 2$ and the factors of $ 6$ . Then write the common					
factors and the greatest common factor.					
Factors of 16					
Common factors of  2 and  6 Greatest common factor of  2 and  6					
Write the factors of 18, the factors of 27, and the factors of 36. Then write the common factors and the greatest common factor.					
Factors of 18					
Factors of 27					
Factors of 36					
Common factors of 18, 27 and 36 Greatest common factor of 18, 27 and 36					

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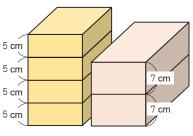


Rectangular tiles 3 cm wide and 5 cm long are placed edge to edge to make a square. What is the length of one side of the smallest square that can be made? How many tiles are needed to make the square?



## Answer

2 A box with a height of 5 cm and another box with a height of 7 cm are stacked separately. How many cm are the heights of both boxes the same? How many boxes with 5 cm and 7 cm are there at that time?



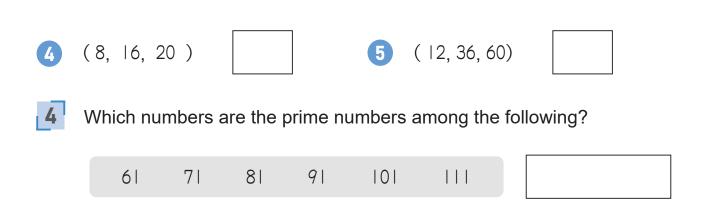
## <u>Answer</u>

7 - 8	B Whole	e Numbers	Review		
1 Categorize the following numbers as even or odd numbers.					
8	15	63 100	398	2839	
Even Numbers			Odd Numbers		
2 Write the lea	ast commo	on multiple of	the numbers i	n each().	
(2,7)		2	(4, 10)		
3 (3, 5, 6)		]	We can find it multiples of 3,	by listing up each 5, and 6.	
Multiples of 3					, ; ; ;
Multiples of 5					
Multiples of 6					
4 (4,8,10)		5	(3, 10, 15	5)	
3 Write the gre	eatest con	nmon factor o	of the numbers	in each().	
( 32, 40 )		2	(27, 81)		
3 (4, 12, 18)	)		We can find it factor of 4,  2,	by listing up each and 18.	
Factors of 4					```````
Factors of  2					
Factors of 18					م ہ

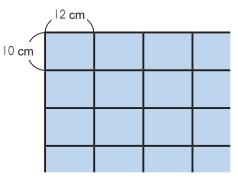
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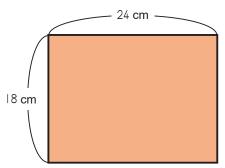


**5** The smallest possible square is made by placing 10 cm wide and 12 cm long rectangular tiles edge to edge. What is the length of one side of the square? How many tiles are needed to make the square?



Answer

**6** We want to cut out squares that are the same size from a piece of paper that is 18 cm wide and 24 cm long with no paper scraps remaining. What size are the squares? How many squares will we have?



## Answer