# Stanground Academy



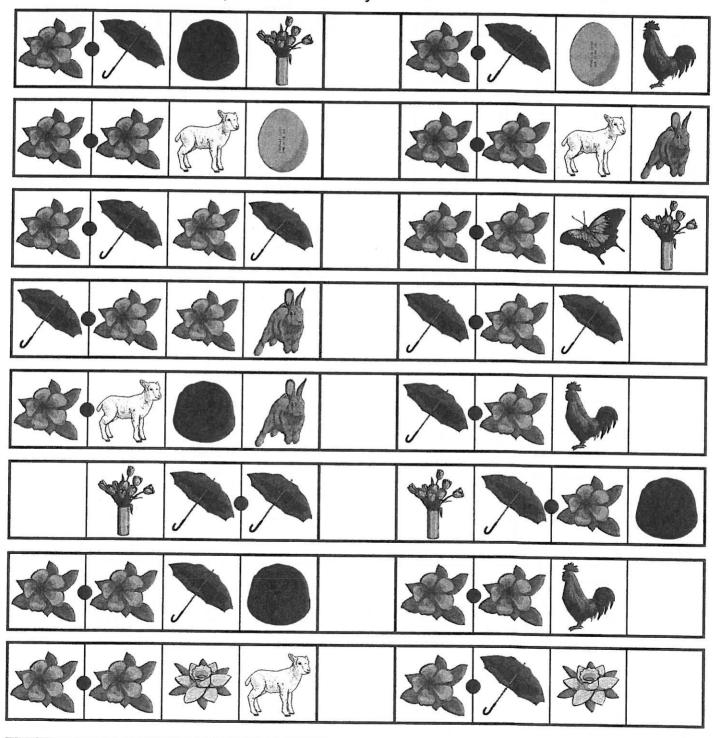
Mathematics Department
Year 7 Homework Booklet

Student's Name:	 ,
Teacher:	

# Compare Code Breaker

				W.S			distribution of the second	5	
3	1	6	5	4	0	8	7	2	9

Use the code breaker to compare these decimal fractions.







### Calculations Code Breaker

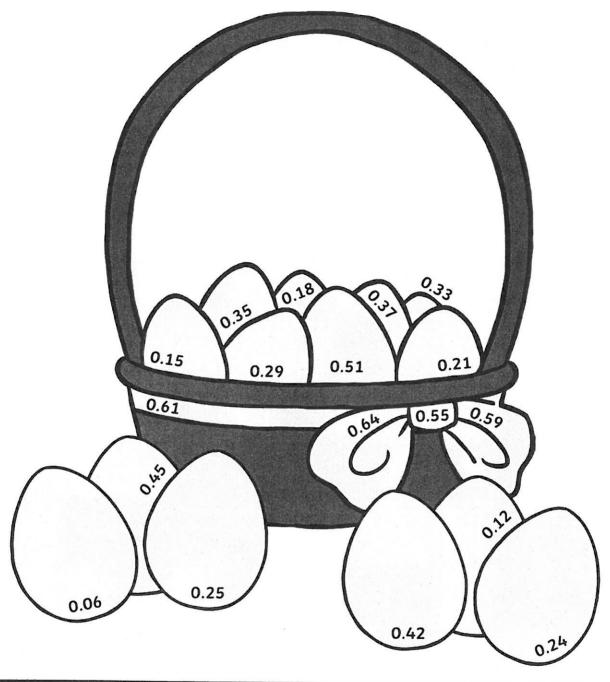
Reveal a spring-themed joke by writing the percentage equivalent to the following fractions and decimal fractions. Use the grid to locate the letter that matches each answer. The joke will read across the tables.

					WL	ii reuu	uci 055	the luc	163.					
A	В	C	D		Ε	F	G	Н	I	J	K	L	М	
6% 1	15%	21%	59	%	13%	24%	18%	7%	12%	1%	25%	19%	9%	
N	0	Р	Q		R	S	T	U	V	W	X	Y	Z	
CONTRACTOR NAMED AND ADDRESS OF	CANADA CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONT	11%	26		2%	17%	20%	3%	10%	8%	14%	23%	4%	
												1	7	
	0.0	8 7	700	0.0	$6 \frac{1}{5}$	-	18 100	0.16	13 100	0.17	$\frac{3}{10}$	$\frac{1}{0}$ 0.1	1	
TOTAL PROPERTY CONTRACTOR		10	0		- 3		100		100		-	+		
Answe	r										9			
Letter														
Letter														
	2		0.7	13	3 0		2	0.07	13 100	0.0	$\frac{6}{10}$	0.1	2 22	<u>:</u>
	$\frac{2}{25}$	5 0.0	07	10		22	2 10	0.07	100	0.0	10	0	2 10	의
Answe	or													
Altswe						_			15 10 10		-	_		$\dashv$
Letter	r													
						<u>.                                     </u>		_		0				
	0.2	$1 \mid \frac{4}{2}$	<u>4</u>	0.0	$\frac{1}{10}$	$\frac{3}{00}$ 0.	17	$\frac{5}{100}$	0.16	$\left  \frac{8}{100} \right $	0.22			
	1500					-								
Answe	er													
Lette												?		
San														
	0.0	2	2 <u>2</u>		0.03	9 100	0.15	2 100	0.13	19	0.19	$\frac{6}{100}$		
	0.0	1	00		0.00	100	J	100		100		100		
Answe	er													
		+												
Lette	r												•	



## Colour by Calculation

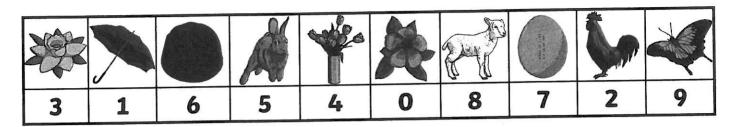
Round each number to the nearest tenth. Use the key to colour the spring-themed picture.



Pink:	Orange:	Yellow:	Green:	Light Purple:	Blue:
0.6	0.1	0.2	0.3	0.4	0.5



#### **Number Cross**



Use the spring-themed code breaker to discover the clues to the number cross. Use written methods of multiplication to solve the number cross.

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		





#### Spring Maths Activity Booklet

#### **Number Cross: Across**

1.	at the second		×			
5.	多级		÷		*	
8.			×			
9.	4		×	*		
11.			•			
13.			×			
16.	多黎	Chip Tark St.	÷			
17.			×			
20.			×			
22.			÷			
24.			×			
25.			÷			
26.			<u>•</u>			
27.	the state of the s		×			



#### Spring Maths Activity Booklet

	Number	Cross: I	Down					
2.		EME	袋		•			
3.				懲	•			
4.	*		A		×			
5.	象	a disc			×			
6.			<b>\$</b>	and so	×			
7.	#* \$5 <sup>4</sup> 23 ,5 <sup>4</sup> 7 2 min		W.	*	÷	*	**	
10.	\$	a le		\$	×			
12.			•	歌	×			
14.	as man and all the last		Wes .		÷			
15.			\$		-			
17.		***	The state of the s		×			
18.		Little Line		象	0 0			
19.		4	W.S.		×			
20.	1			172	×			
21.				\$	÷			
23.	- Gr - Gr	(57 5647 50; 151 7 84 505)	· Pa		×			





### **Maths Mosaic**

Calculate each answer and find the colour to shade each square.

G	rey: Pink:		Bl	ue:	Blo	ıck:	Wł	iite:	
<	1	1 -	1.99	2 - 3	2.99	3 - 3	3.99	4 - 4	4.99
5.8	1.78	3.4	0.7	8.1	5.67	0.18	1.65	7.66	0.2
-	+	-	+	-	-	+	-	-	+
3.23	0.8	0.57	0.24	7.35	3.2	0.71	0.9	6.9	2.47
4.5	7.5	0.98	5.3	4.5	4.87	0.1	7.3	0.45	5.4
-	-	+	-	-	-	+	-	+	-
2.14	5.03	1.2	3.78	3.6	2.3	0.78	6.12	0.1	3.12
1.2	6.7	0.56	3.76	0.56	0.76	0.24	2.76	0.39	2.56
+	-	+	-	+	+	+	-	+	+
1.34	4.5	1.6	2.3	0.4	1.9	0.7	0.9	0.3	0.2
9.2	1.4	3.4	1.23	6.95	2.1	8.2	7.46	7.12	5.8
-	+	-	+	-	+	-	-	-	-
6.89	1.34	0.87	0.6	6.3	0.45	7.89	6.3	6.7	3.43
3.46	1.67	0.23	0.12	9.45	0.12	6.5	0.4	3.98	1.45
-	+	+	+	-	+	-	+	-	+
0.86	0.9	0.4	0.5	8.8	0.7	5.87	0.57	3.7	1.2
3.7	3.4	1.56	4.35	0.37	9.4	7.02	5.1	0.23	2.1
-	+	+	-	+	-	-	-	+	+
0.98	1.39	1.7	4.2	0.3	5.21	3.4	4.67	0.6	0.67
3.6	2.76	7.8	9.1	6.12	6.07	2.76	1.56	7.57	5.6
-	+	-	-	-	-	+	-	-	-
0.76	1.6	3.45	8.56	5.4	1.4	1.6	0.8	6.9	3.16
4.5	0.54	3.2	0.56	7.5	2.3	0.23	0.87	6.35	2.4
-	+	-	+	-	-	+	+	-	+
3.88	0.3	2.87	0.2	6.89	1.87	0.6	0.1	5.7	0.23
7.12	0.76	0.56	3.7	0.34	8.9	0.06	3.4	0.4	8.7
-	+	+	-	+	-	+	-	+	-
6.4	0.8	0.9	2.09	0.5	7.93	0.4	2.67	0.38	6.23
0.37	4.5	2.56	3.4	5.05	7.6	0.1	4.6	0.23	0.01
+	-	-	-	-	-	+	-	+	+
0.6	4.07	1.2	3.03	4.1	7.23	0.89	4.08	0.6	1.99



## **Spring Flags**

These flags have been designed on centimetre square grids.

Colour the flags according to the fractions:

1								
							2	
						*		
					N.			
1								
1	16	l	l l		1			

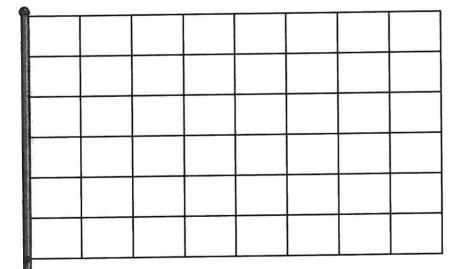
Red =  $\frac{1}{5}$  \_\_\_\_\_

Green =  $\frac{3}{10}$ 

Blue =  $\frac{1}{2}$  \_\_\_\_

What percentage is green? \_\_\_\_\_\_.

What percentage is blue? \_\_\_\_\_



Red =  $\frac{1}{4}$  \_\_\_\_\_

Green =  $\frac{1}{3}$ 

Blue =  $\frac{1}{8}$  \_\_\_\_\_

What fraction is white? \_\_\_\_\_

# Converting Equivalent Fractions Board Game

#### Instructions:

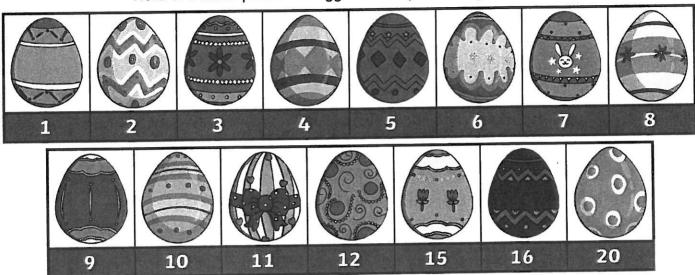
- Choose a space to start from and place your counter on it.
- Roll a dice and move clockwise that number of spaces.
- Find an equivalent fraction on the flowers and cover it over.
- If you land on a square where the answer has already been covered, miss your go.
- The winner is the player who covers the last flower.

<del>4</del> 8	<u>6</u> 8	<u>21</u> 30	<u>2</u> 10	15 18
<u>14</u> 24	3	10	5	<u>6</u> 9
<u>15</u> 20	5 8	2	3	<u>6</u> 12
<u>22</u> 33	3 10	56	7 12	<u>15</u> 24
<del>9</del> 30	<u>3</u> 15	<u>21</u> 36	<u>8</u> 16	<u>9</u> 12

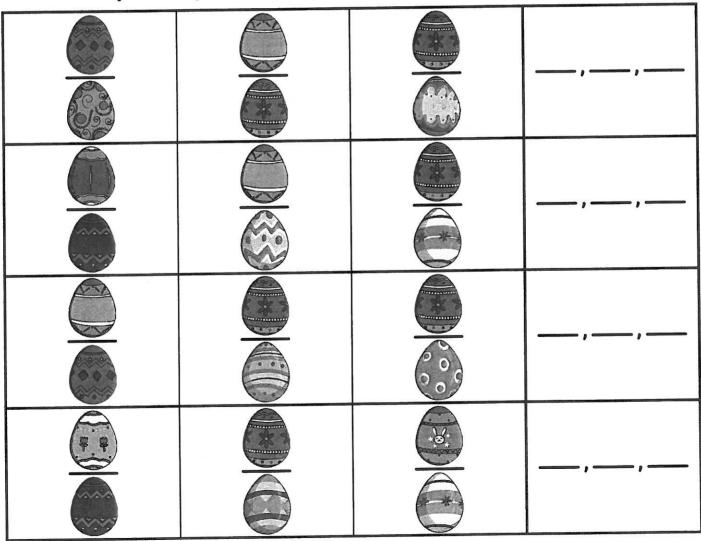


# Order Egg Fractions

Here are some patterned eggs each representing a number:



Use the code to find the 3 fractions in each line, and order from smallest to greatest.

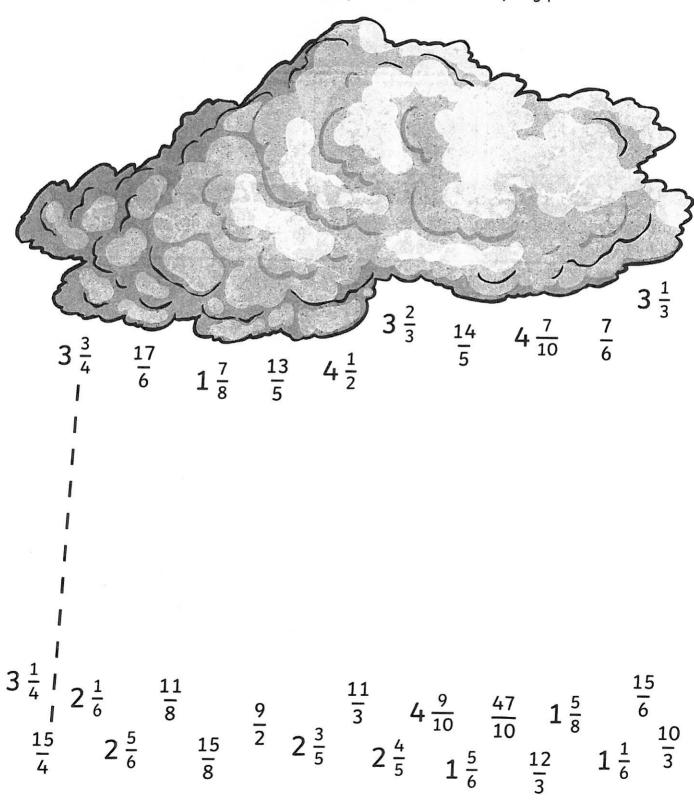




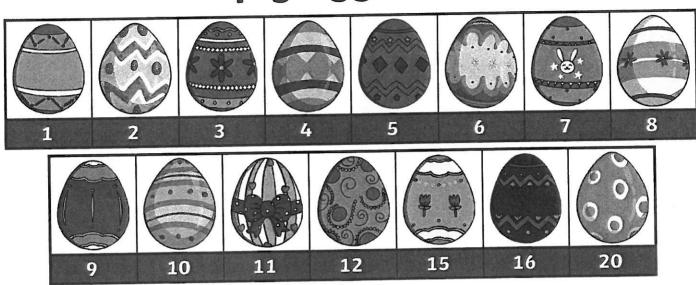


# Spring Improper and Mixed Fractions

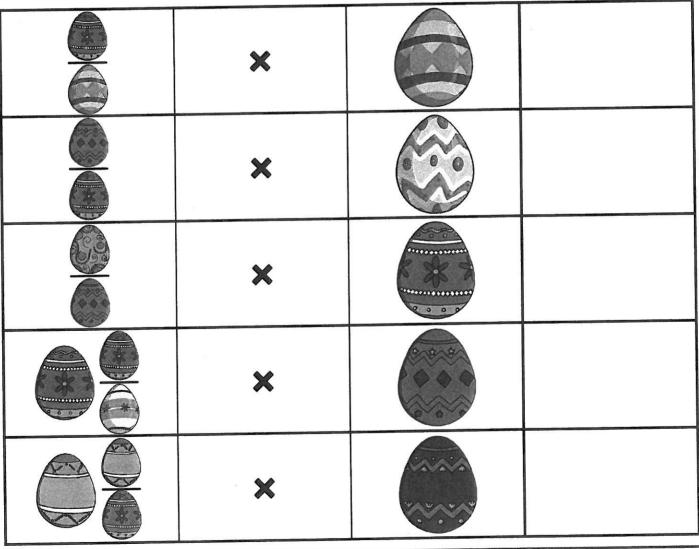
Match the improper and proper fractions to draw a spring picture.



# **Multiply Egg Fractions**



Use the egg code above and calculate the following multiplications, giving your answer as a mixed number.







# Spring Holiday Activities Board Game

#### You will need:

- counters
- · a dice
- pencil

#### Instructions:

- Each player starts the game with 10 points.
- Take turns to throw the dice and move your counter around the board.
- · When you land on a square, add or subtract the points on that square to or from your score.
- When a player reaches the finish, the player with the most points is the winner.

#### Keep track of your score here:

Name:	Name:	Name:	Name:
10	10	10	10





#### Spring Maths Activity Booklet

### Spring Holiday Activities Board Game

**START FINISH** 

## **Spring Fraction Riddles**

I buy some bags of eggs that each contain 24 eggs.

I use the eggs from  $\frac{3}{4}$  of the bags and hide them in the playground.

The children find all of the eggs and share them out equally. Each child gets one egg.

There are  $\frac{1}{6}$  of the hidden eggs left over.

The children come from 2 classes of 30 children.

How many bags of eggs did I buy?





I buy some bunches of tulips of different colours.

 $\frac{1}{6}$  of the bunches are red tulips.

 $\frac{1}{4}$  of the bunches are yellow tulips.

 $\frac{1}{3}$  of the bunches are blue tulips.

There are 6 other bunches.

How many bunches of tulips did I buy?

