Year 6 – 7 Mathematics LPA Transition Pack Summer Activities 2021







Name:

Hello year 6,

We are looking forward to welcoming you at Lydiard Park Academy in September 2021! We hope you stay safe and well over the summer holidays to join us ready for a strong start in year 7.

We have provided you with this summer activity booklet to explore, consolidate and enjoy over your summer holidays. You will find lots of fun activities which will also help you recall key concepts and skills which you will apply and use in year 7 and throughout your years in secondary school.

You may prefer to print the booklet and work on the activities. You may want to record your activities and answers in a note pad. Whichever you choose, keep safe and bring into school during your first week for your first reward points and to be entered into a prize draw for a bigger prize! (Good Luck!)

You may wish to use online resources to help you recap specific skills such as written methods, operations with fractions, pie charts, translations, symmetry and rounding. The internet is great for learning, use YouTube or www.corbettmaths.com to discover free video clips to help with explanations and problems.

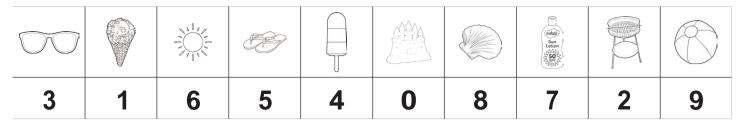
Have a great summer break, stay safe.

If you have any questions on the booklet or about joining us in year 7, feel free to contact me on:

Miss T McCaig – KS3 Coordinator / Mathematics Teacher

Mccaigt@lydiardparkacademy.org.uk

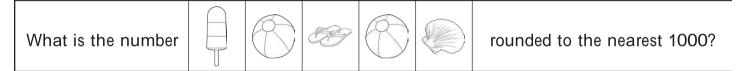
Place Value Code Breaker



What is the number rounded to the nearest 10?



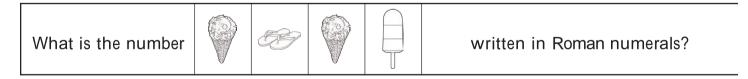
Answer:



Answer:



Answer:



Answer:

What is the number			written in Roman numerals?
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Answer:

Calculations Code Breaker

Solve the calculations and use the code breaker to spell out a summer-themed joke. The joke will read down the tables.

Α	В	С	D	Е	F	G	Н	- 1	J	K	L	M
6	15	21	5	13	24	18	7	12	1	25	19	9
N	0	Р	Q	R	S	Т	U	V	W	Х	Υ	Z

	Answer	Letter
$\frac{2}{5}$ of 20		
1/7 of 49		
1/2 of 46		

	Answer	Letter
1/6 of 30		
4/5 of 20		

	Answer	Letter
⁵ / ₆ of 18		
$\frac{2}{6}$ of 18		
$\frac{2}{3}$ of 33		
$\frac{1}{4}$ of 24		
$\frac{1}{2}$ of 44		
$\frac{1}{5}$ of 30		
$\frac{1}{2}$ of 34		

	Answer	Letter
1/8 of 24		
$\frac{1}{3}$ of 51		
1/3 of 39		

	Answer	Letter
1/4 of 68		
$\frac{1}{5}$ of 15		
$\frac{2}{5}$ of 55		

	Answer	Letter
$\frac{1}{2}$ of 42		
$\frac{1}{10}$ of 20		
$\frac{1}{4}$ of 52		
¹ / ₉ of 54		
$\frac{3}{5}$ of 15		?

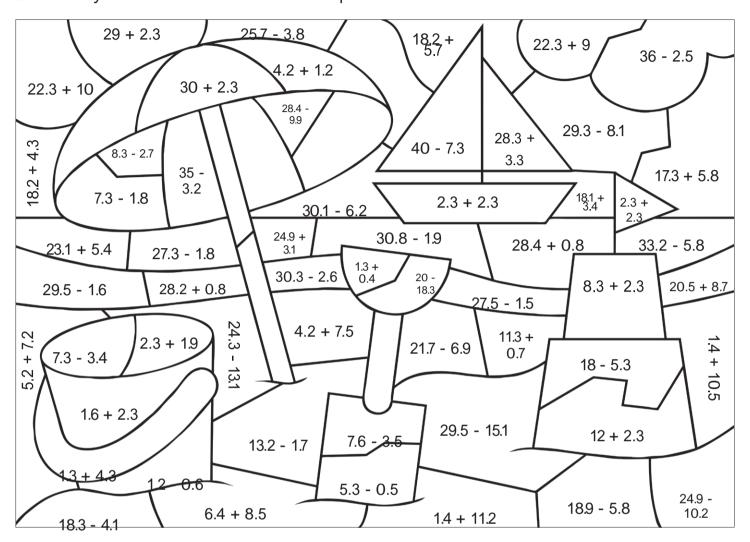
	Answer	Letter
1/2 of 30		
1/8 of 104		
$\frac{1}{3}$ of 63		
$\frac{1}{2}$ of 12		
$\frac{1}{3}$ of 9		
1/5 of 85		
1/5 of 65		

	Answer	Letter
$\frac{2}{3}$ of 30		
$\frac{1}{3}$ of 21		
$\frac{1}{3}$ of 39		
1/2 of 46		

	Answer	Letter
$\frac{1}{3}$ of 33		
$\frac{1}{4}$ of 52		
1/8 of 104		
1/2 of 38		

Colour by Calculation

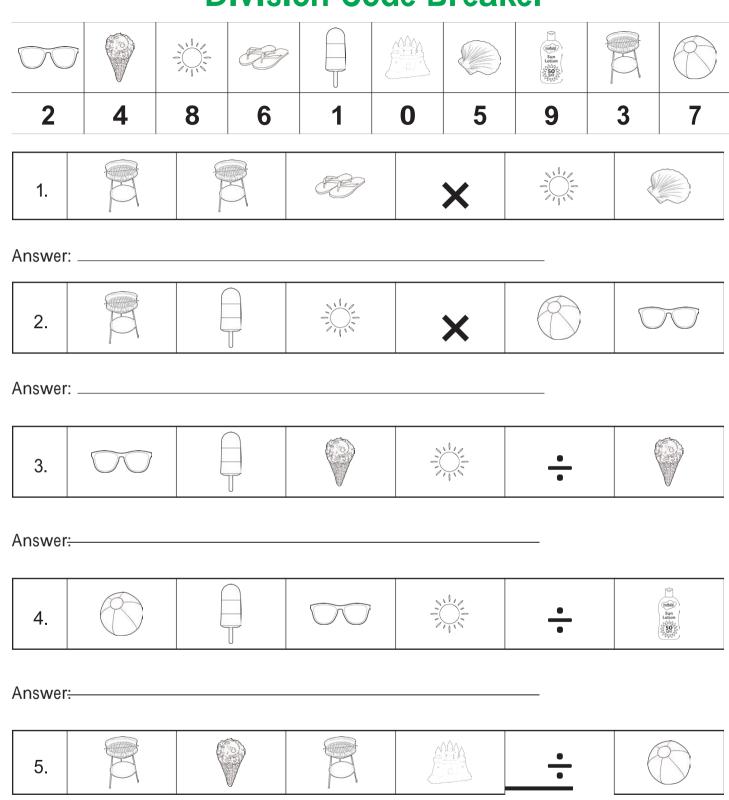
Use the key to colour the summer-themed picture.



Grey:	Red:	Orange:	Yellow:	Green:	Light Blue:	Dark Blue:	White:
0	1 - 5	5.1 - 10	10.1 - 15	15.1 - 20	20.1 - 25	25.1 - 30	30.1 - 35



Written Methods of Multiplication and Division Code Breaker



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Answer: _

Summertime Addition and Subtraction Maths Mosaic

Solve the calculations to reveal the hidden picture. Each answer has a special colour.

green = 7200 | pink = 7500 | black = 7800 | blue = 8100 | yellow = 8400

2650 +	9972 -	1788 +	5589 +	8369 +	9959 -	1528 +	757 +	7619 +
5450	1872	6612	2811	31	1559	6872	7343	481
2107 +	6475 +	4660 +	2461 +	8417 -	958 +	6194 +	9859 -	9526 -
5993	1925	3740	5939	17	7442	2206	1459	1426
5959 +	8263 -	1171 +	715 +	4865 +	3101 +	5518 +	1036 +	4399 +
1841	463	6629	7085	2935	4699	2282	6764	3401
9584 -	7554 +	6999 +	677 +	5590 +	8688 -	9892 -	333 +	9860 -
1184	246	801	7123	2810	888	2092	7467	1460
4334 +	1577 +	1920 +	1787 +	5588 +	8370 +	8360 -	4335 +	1576 +
4066	6823	5880	6613	2812	30	560	4065	6824
9270 -	7308 +	3886 +	8703 -	6238 +	7083 +	3591 +	1162 +	4200 +
870	1092	4514	303	2162	1317	4809	7238	4200
7787 +	7787 +	3886 +	8703 -	7308 +	7787 +	3073 +	7456 +	6726 +
613	613	4514	303	1092	613	5327	944	1674
3979 +	8434 -	5927 +	5124 +	6329 +	8233 -	8899 -	3980 +	9335 -
4421	34	1573	2376	1171	733	1399	4420	935
6967 +	3887 +	8704 -	1042 +	1964 +	8825 -	5589 +	8360 +	2546 +
233	4513	304	6458	5536	1325	2811	40	4654
1827 +	658 +	6475 +	4660 +	2461 +	8417 -	958 +	3043 +	4380 +
5373	6542	1925	3740	5939	17	7442	4157	2820

Summer Number Puzzles

I collect some shells on the beach.

I multiply the number of shells I have by 7.

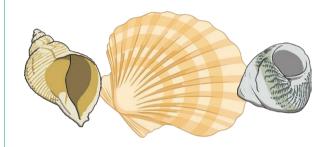
I then subtract 7,

multiply by 9,

and divide by 2.

I end with the number 1953.

How many shells did I collect?



I practise cartwheels on the sand.

I multiply the number of cartwheels I do by 38.

I then subtract 83,

multiply by 100,

and divide by 4.

I end with the number 19 775.

How many cartwheels did I do?



I decorate my sandcastle with flags.

I multiply the number of flags I use by 26.

I then add 132,

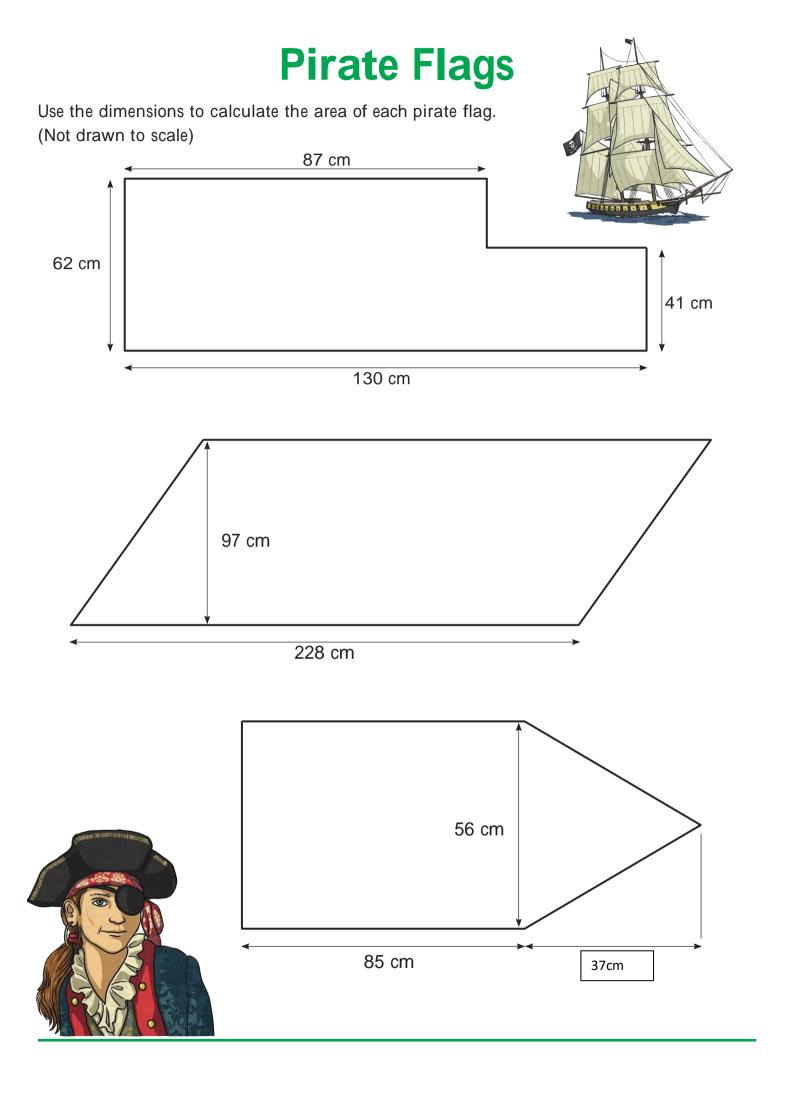
multiply by 4,

and divide by 10.

I end with the number 344.

How many flags did I use to decorate my sandcastle?





Converting Units of Time Board Game

Instructions

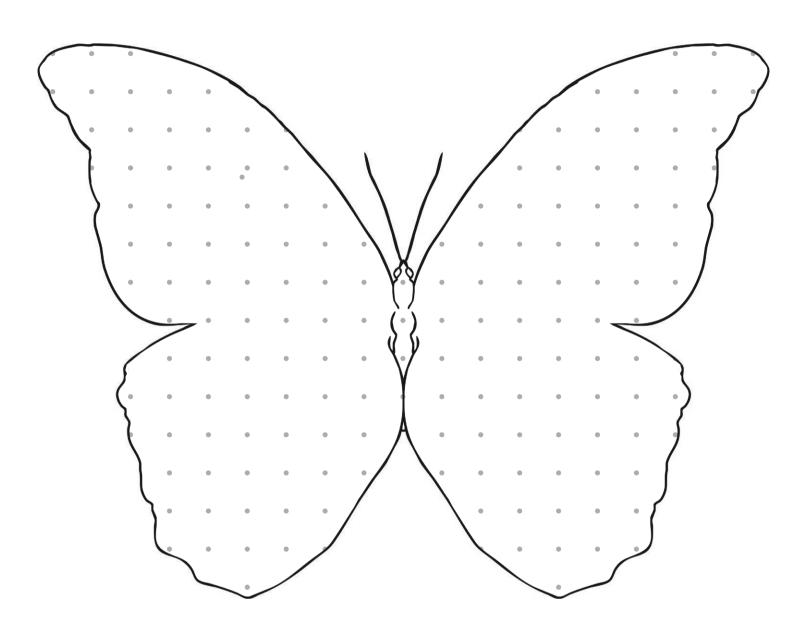
- Each player must choose a space to start from and place their counter on it.
- The first player rolls the dice and moves their counter clockwise.
- They must answer the question in that square, find the answer on the correct shell and cover it over.

- The next player will take their turn.
- If a player lands on a square where the answer has already been covered, they must miss a go.
- The winner is the player who has covered the most shells.

2 8 + 3	<u>3</u> <u>2</u> <u>5</u>	<u>2</u> <u>6</u> 9	<u>9</u> <u>2</u> 3	1 2 3
2 10 ₋ 5		13 24		<u>1</u> <u>5</u> 8 ₋ 6
<u>2</u> <u>1</u> 2		14 15 9 16 4 5	3 11 1 1 2	1 7 8
<u>4</u> <u>1</u> 3		130 115	6	<u>5</u> <u>1</u> 12 ₋ 2
4/10 + 5	1 1 4	1/6 + 12	3 2 3	<u>2</u> <u>5</u> 9

Butterfly Pattern Symmetry

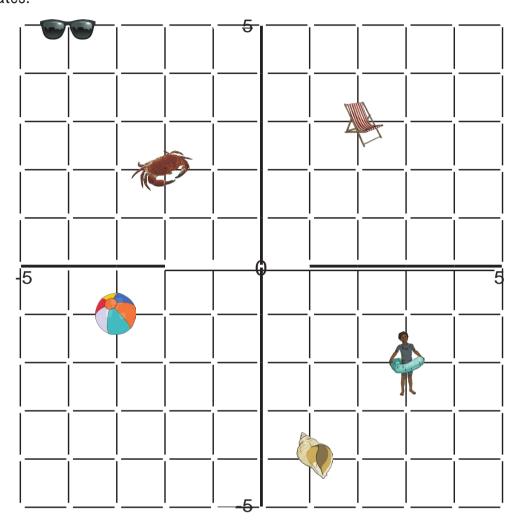
Draw a symmetrical pattern on this butterfly using different regular and irregular polygons.



which polygons did you use in your symmetrical design?					

Summer-Themed Coordinate Translations

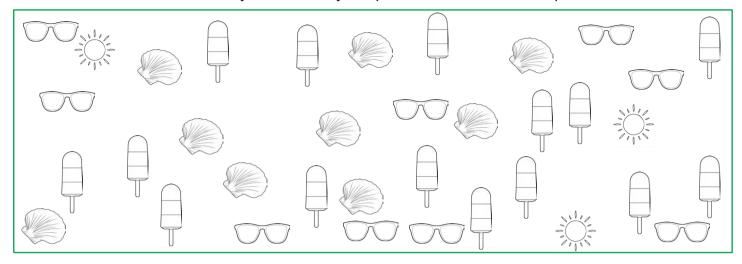
Write the coordinates of the summer-themed objects. Translate them and write the new coordinates.

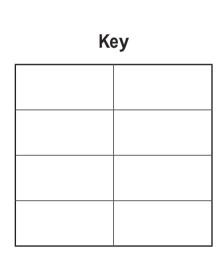


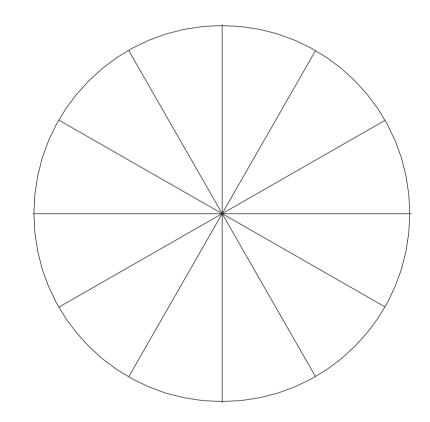
Object	Starting Coordinate	Translation	Finishing Coordinate
		Right 4, Up 6	
		Right 5, Down 7	
		Left 4, Down 3	
10		Left 1, Up 2	
		Right 3, Down 1	
		Right 1, Up 2	

Summer Holiday Pie Chart

Count the summer-themed objects carefully. Represent the results as a pie chart.







Item	Pie Chart Colour	Frequency	Fraction	Number of Pie Chart Segments
Sun				
Sea shell				
Ice Iolly				
Sunglasses				

Summer Holiday Activities Board Game

You will need:

- counters
- a dice
- a pencil

Instructions

Each player starts the game with 1000 points.

The first player will throw the dice. The number rolled shows how many squares that player can move their counter around the board.

When the player lands on a square, they must add or subtract the points on that square to or from their score.

The next player will then take their turn to roll.

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:
1000	1000	1000	1000

Summer Holiday Activities Board Game

