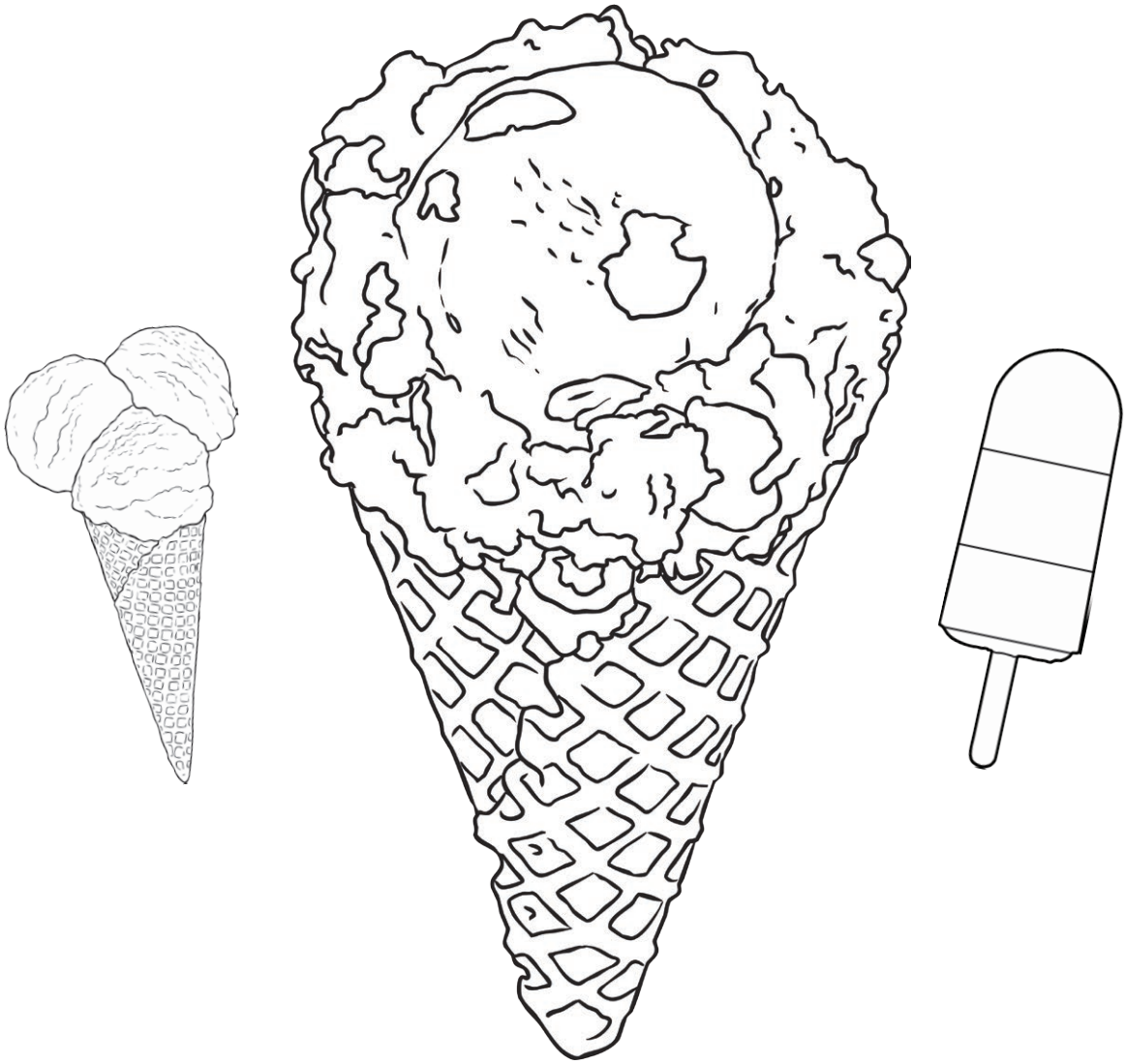
Year 6 Summer-Themed

# Maths Activity Booklet

# Answers



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# Place Value Code Breaker

|  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 1 | 6 | 5 | 4 | 0 | 8 | 7 | 2 | 9 |

| What is the number |  |  |  |  |  | rounded to the nearest 10? |
|---|---|---|---|---|---|---|

Answer: **62 550**

| What is the number |  |  |  |  |  | rounded to the nearest 100? |
|---|---|---|---|---|---|---|

Answer: **30 200**

| What is the number |  |  |  |  |  | rounded to the nearest 1000? |
|---|---|---|---|---|---|---|

Answer: **50 000**

| What is the number |  |  |  |  | written in Roman numerals? |
|---|---|---|---|---|---|

Answer: **MMMCCLVII**

| What is the number |  |  |  |  | written in Roman numerals? |
|---|---|---|---|---|---|

Answer: **MDXIV**

| What is the number |  |  |  |  | written in Roman numerals? |
|---|---|---|---|---|---|

Answer: **MMLXVI**



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# 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.

| A | B | C | D | E | F | G | H | I | J | K | L | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 15 | 21 | 5 | 13 | 24 | 18 | 7 | 12 | 1 | 25 | 19 | 9 |

| N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 22 | 16 | 11 | 26 | 2 | 17 | 20 | 3 | 10 | 8 | 14 | 23 | 4 |

| | Answer | Letter |
|---|---|---|
| $\frac{2}{5}$ of 20 | 8 | W |
| $\frac{1}{7}$ of 49 | 7 | H |
| $\frac{1}{2}$ of 46 | 23 | Y |

| | Answer | Letter |
|---|---|---|
| $\frac{1}{6}$ of 30 | 5 | D |
| $\frac{4}{5}$ of 20 | 16 | O |

| | Answer | Letter |
|---|---|---|
| $\frac{5}{6}$ of 18 | 15 | B |
| $\frac{2}{6}$ of 18 | 6 | A |
| $\frac{2}{3}$ of 33 | 22 | N |
| $\frac{1}{4}$ of 24 | 6 | A |
| $\frac{1}{2}$ of 44 | 22 | N |
| $\frac{1}{5}$ of 30 | 6 | A |
| $\frac{1}{2}$ of 34 | 17 | S |

| | Answer | Letter |
|---|---|---|
| $\frac{1}{8}$ of 24 | 3 | U |
| $\frac{1}{3}$ of 51 | 17 | S |
| $\frac{1}{3}$ of 39 | 13 | E |

| | Answer | Letter |
|---|---|---|
| $\frac{1}{4}$ of 68 | 17 | S |
| $\frac{1}{5}$ of 15 | 3 | U |
| $\frac{2}{5}$ of 55 | 22 | N |

| | Answer | Letter |
|---|---|---|
| $\frac{1}{2}$ of 42 | 21 | C |
| $\frac{1}{10}$ of 20 | 2 | R |
| $\frac{1}{4}$ of 52 | 13 | E |
| $\frac{1}{9}$ of 54 | 6 | A |
| $\frac{3}{5}$ of 15 | 9 | M? |

| | Answer | Letter |
|---|---|---|
| $\frac{1}{2}$ of 30 | 15 | B |
| $\frac{1}{8}$ of 104 | 13 | E |
| $\frac{1}{3}$ of 63 | 21 | C |
| $\frac{1}{2}$ of 12 | 6 | A |
| $\frac{1}{3}$ of 9 | 3 | U |
| $\frac{1}{5}$ of 85 | 17 | S |
| $\frac{1}{5}$ of 65 | 13 | E |

| | Answer | Letter |
|---|---|---|
| $\frac{2}{3}$ of 30 | 20 | T |
| $\frac{1}{3}$ of 21 | 7 | H |
| $\frac{1}{3}$ of 39 | 13 | E |
| $\frac{1}{2}$ of 46 | 23 | Y |

| | Answer | Letter |
|---|---|---|
| $\frac{1}{3}$ of 33 | 11 | P |
| $\frac{1}{4}$ of 52 | 13 | E |
| $\frac{1}{8}$ of 104 | 13 | E |
| $\frac{1}{2}$ of 38 | 19 | L |



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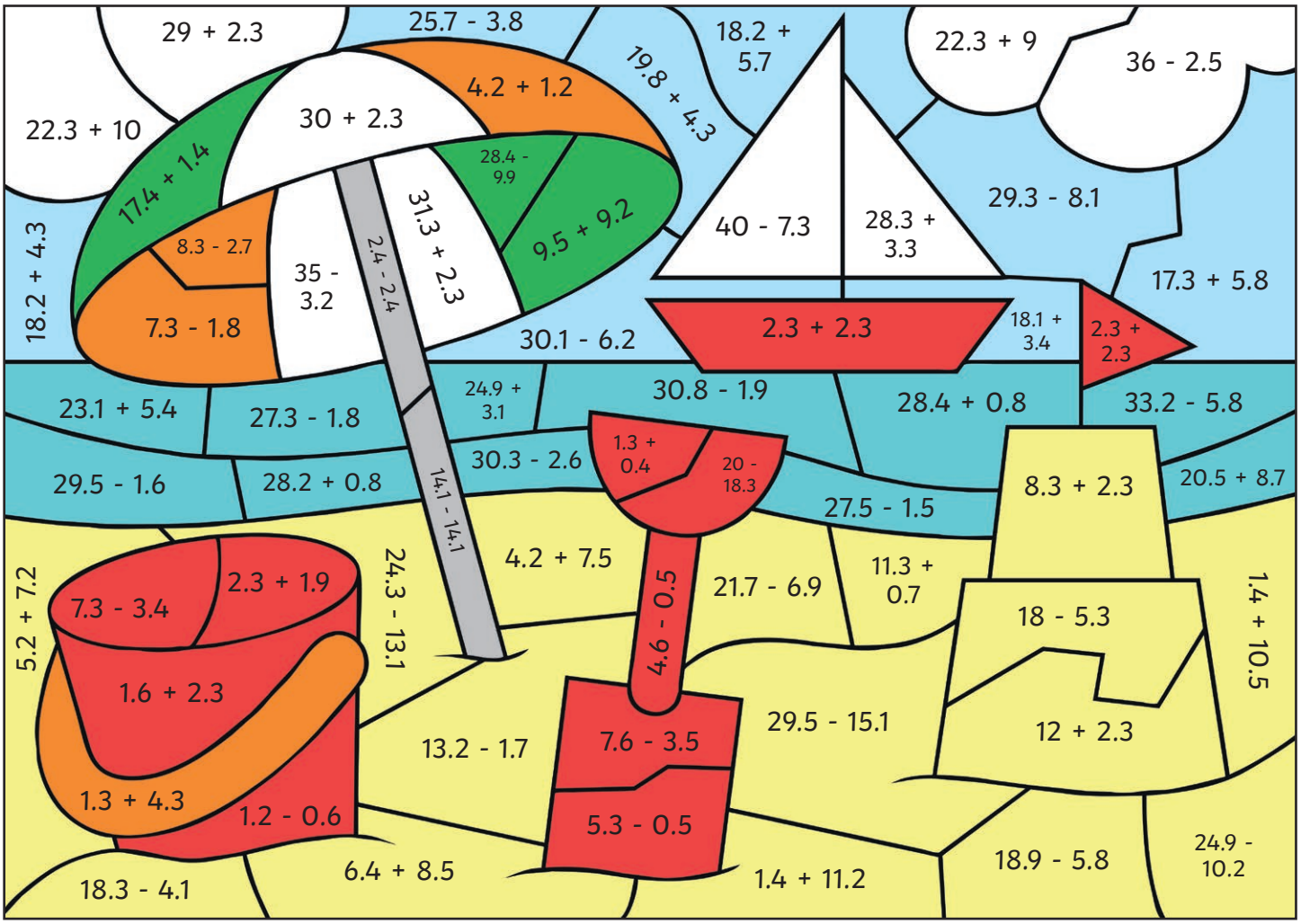
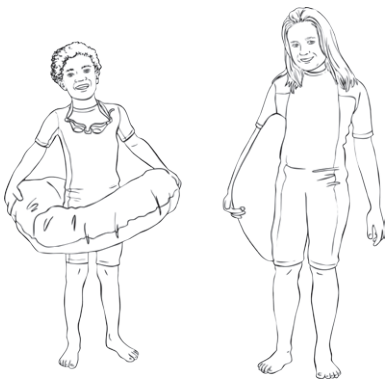
# Colour by Calculation

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 |





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# Written Methods of Multiplication and Division Code Breaker

|  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|
| 2 | 4 | 8 | 6 | 1 | 0 | 5 | 9 | 3 | 7 |

| 1. |  |  |  | × |  |  |
|---|---|---|---|---|---|---|

Answer: **336 × 85 = 28 560**

| 2. |  |  |  | × |  |  |
|---|---|---|---|---|---|---|

Answer: **318 × 72 = 22 896**

| 3. |  |  |  |  | ÷ |  |
|---|---|---|---|---|---|---|

Answer: **2148 ÷ 4 = 537**

| 4. |  |  |  |  | ÷ |  |
|---|---|---|---|---|---|---|

Answer: **7128 ÷ 9 = 792**

| 5. |  |  |  |  | ÷ |  |
|---|---|---|---|---|---|---|

Answer: **3430 ÷ 7 = 490**



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



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# Summer Number Puzzles

I collect some shells on the beach.

I multiply the number of shells I have by 7.

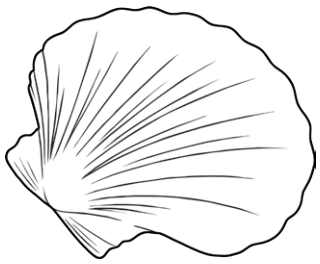
I then subtract 7,

multiply by 9,

and divide by 2.

I end with the number 1953.

How many shells did I collect? **63 shells**



I practise cartwheels on the sand.

I multiply the number of cartwheels I do by 38.

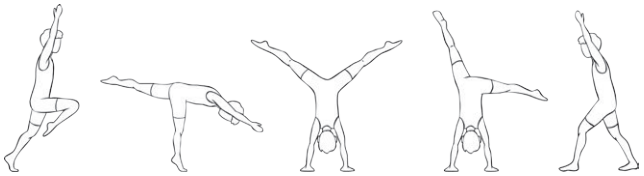
I then subtract 83,

multiply by 100,

and divide by 4.

I end with the number 19 775.

How many cartwheels did I do?
**23 cartwheels**



I decorate my sandcastle with flags.

I multiply the number of flags I use by 26.

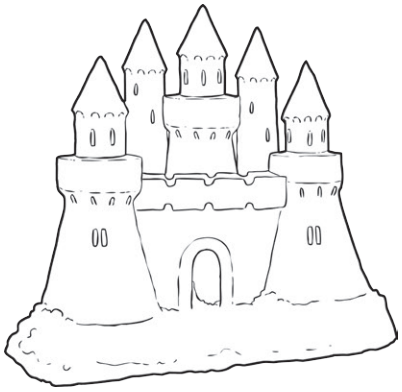
I then add 132,

multiply by 4,

and divide by 10.

I end with the number 344.

How many flags did I use to decorate my sandcastle? **28 flags**





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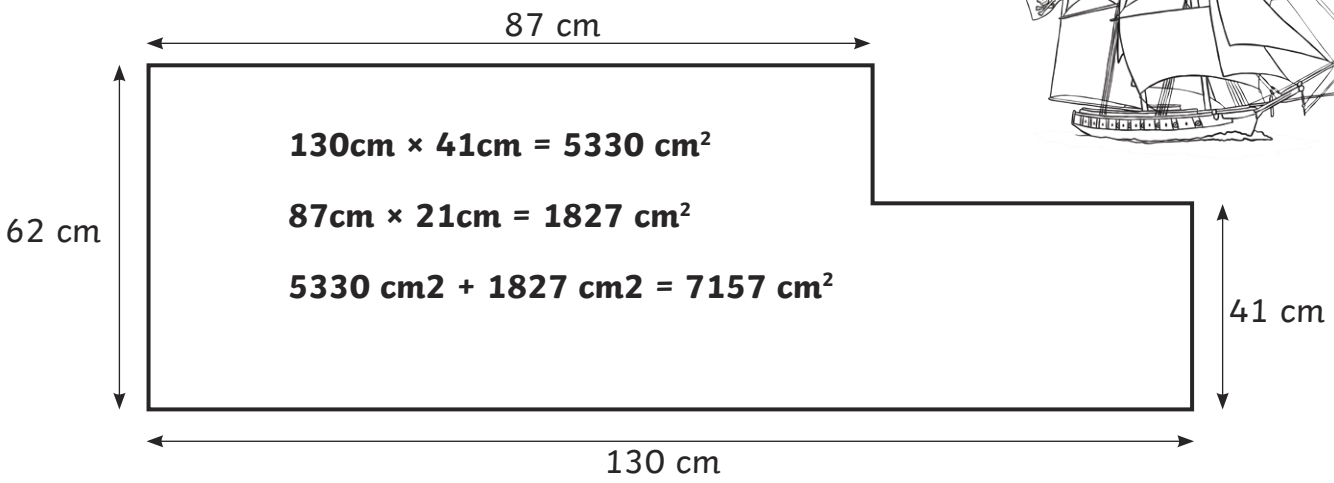
# Pirate Flags

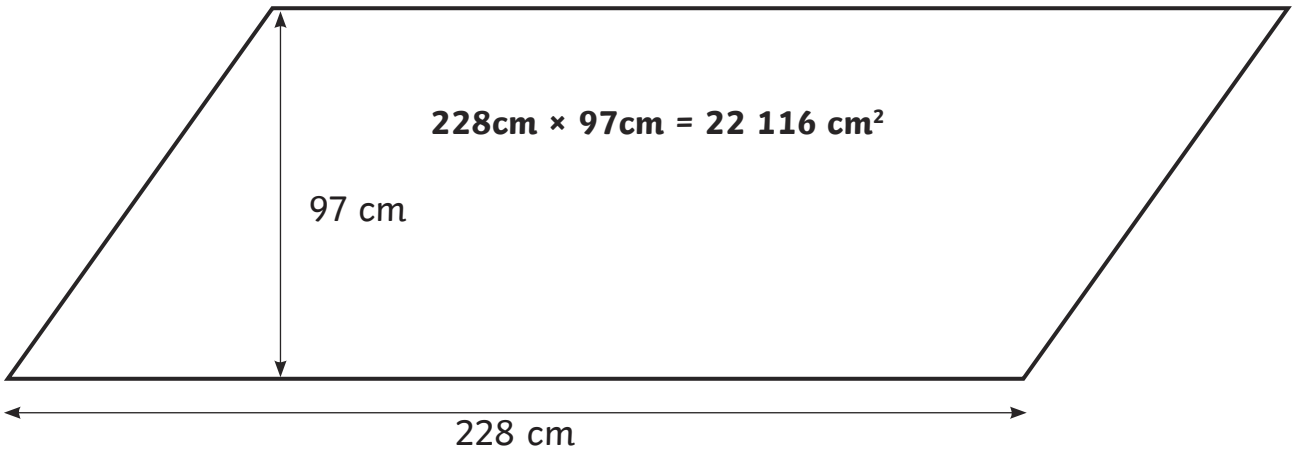
Use the dimensions to calculate the area of each pirate flag.
(Not drawn to scale)



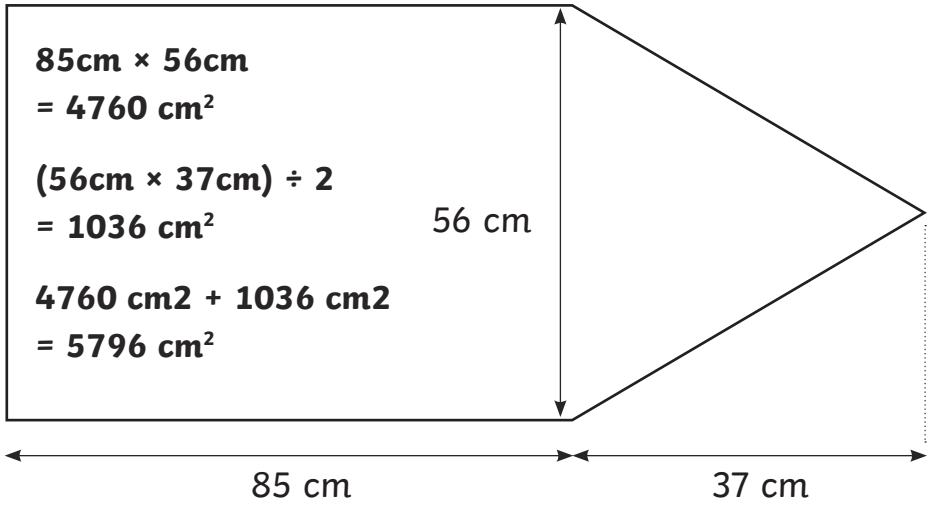

**130cm × 41cm = 5330 cm²**

**87cm × 21cm = 1827 cm²**

**5330 cm2 + 1827 cm2 = 7157 cm²**




**228cm × 97cm = 22 116 cm²**




**85cm × 56cm**
**= 4760 cm²**

**(56cm × 37cm) ÷ 2**
**= 1036 cm²**

**4760 cm2 + 1036 cm2**
**= 5796 cm²**



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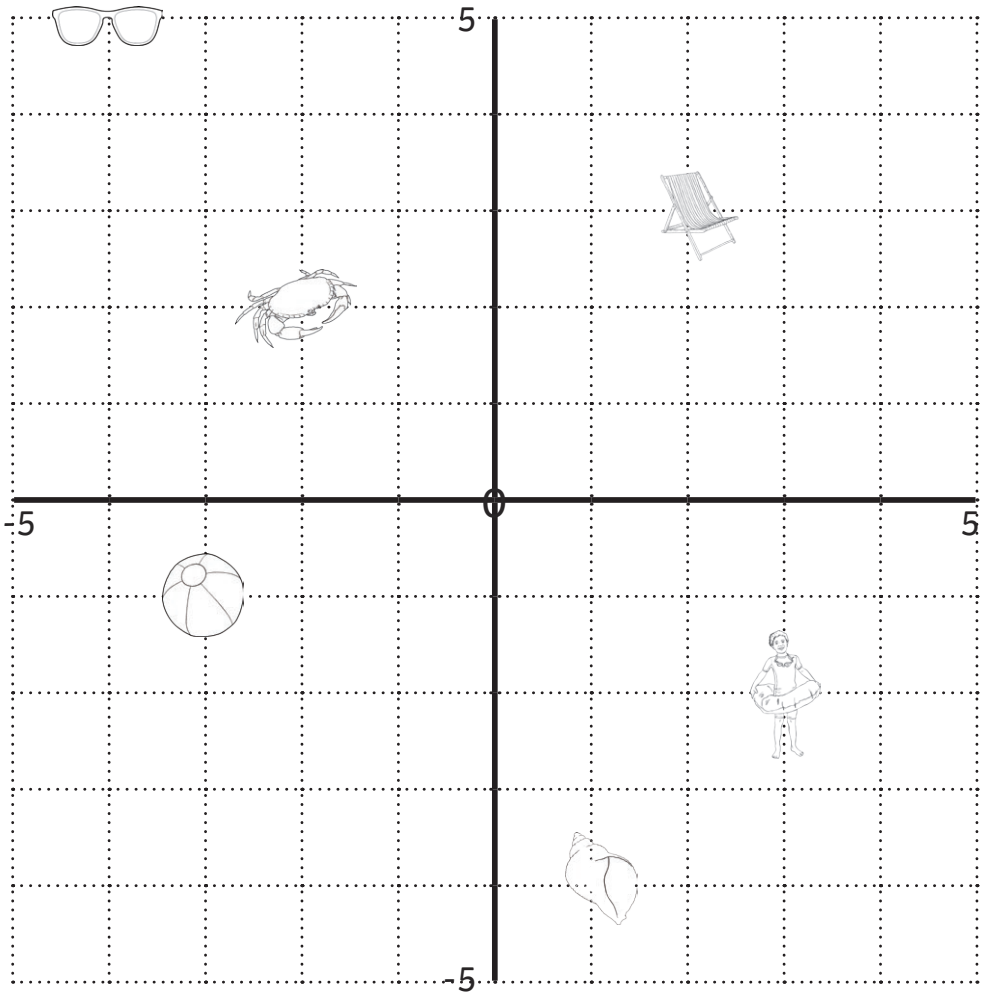
# Summer-Themed Coordinate Translations

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




| Object | Starting Coordinate | Translation | Finishing Coordinate |
|---|---|---|---|
|  | **(-3, -1)** | Right 4, Up 6 | **(1, 5)** |
|  | **(-4, 5)** | Right 5, Down 7 | **(1, -2)** |
|  | **(3, -2)** | Left 4, Down 3 | **(-1, -5)** |
|  | **(-2, 2)** | Left 1, Up 2 | **(-3, 4)** |
|  | **(1, -4)** | Right 3, Down 1 | **(4, -5)** |
|  | **(2, 3)** | Right 1, Up 2 | **(3, 5)** |



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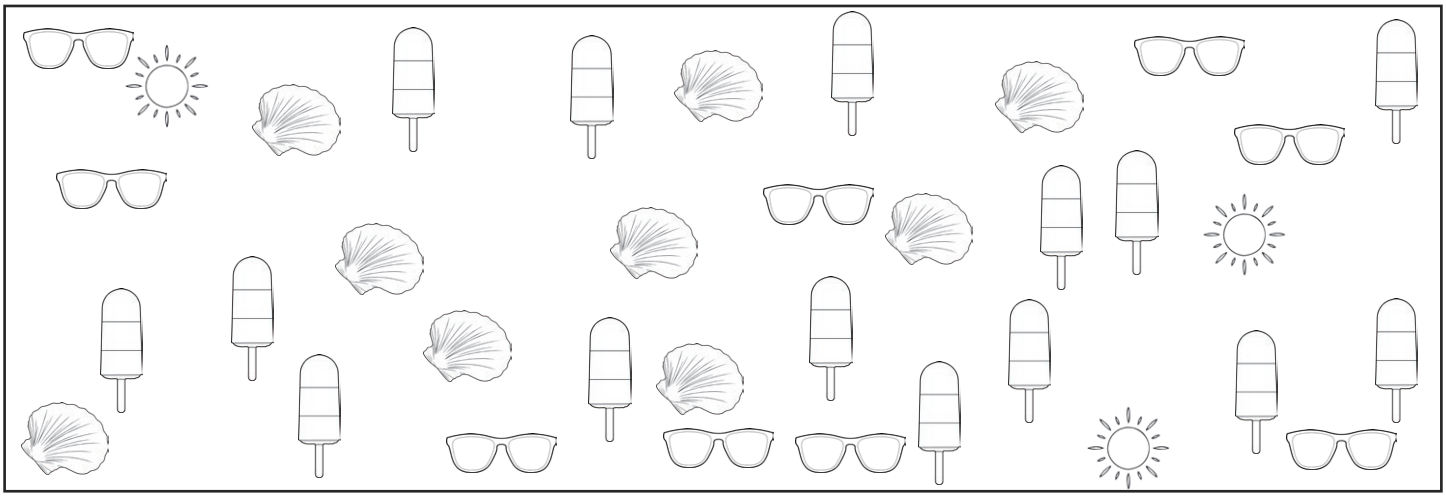
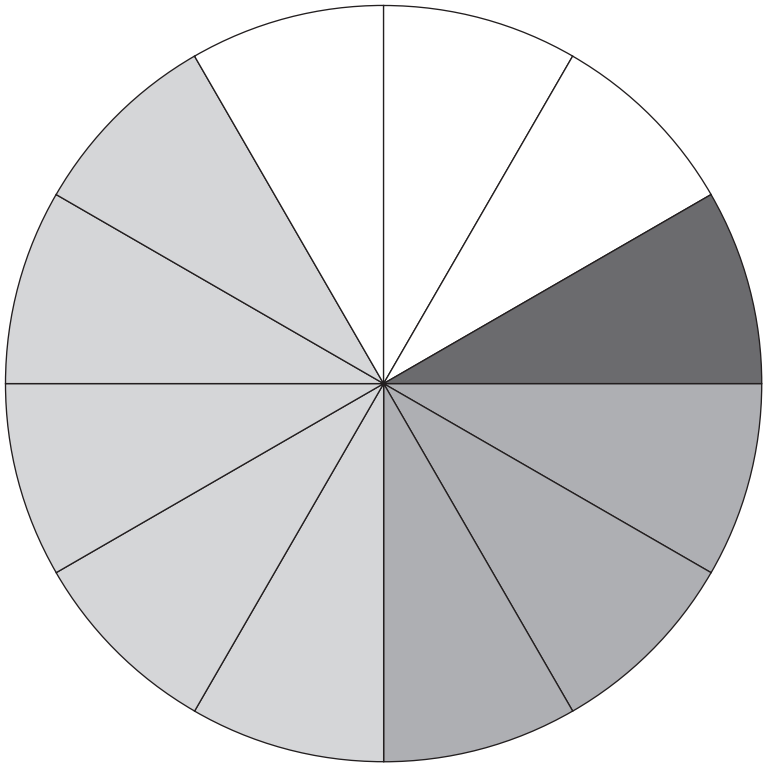
# Summer Holiday Pie Chart

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 | | 3 | $\frac{3}{36} = \frac{1}{12}$ | 1 |
| Sea shell | | 9 | $\frac{9}{36} = \frac{1}{4}$ | 3 |
| Ice lolly | | 15 | $\frac{15}{36} = \frac{5}{12}$ | 5 |
| Sunglasses | | 9 | $\frac{9}{36} = \frac{1}{4}$ | 3 |