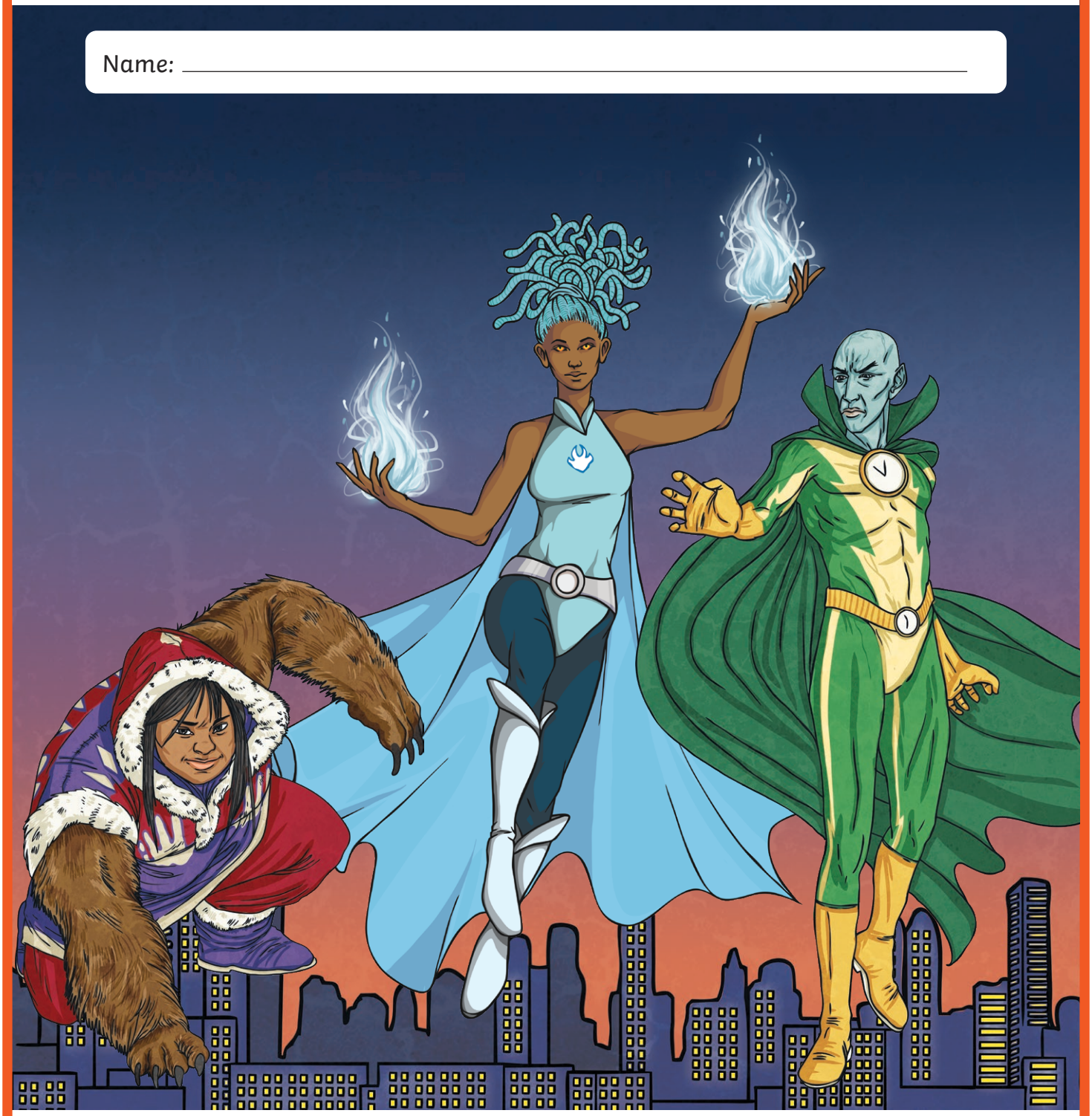
Activity Booklet 2

Name: _____

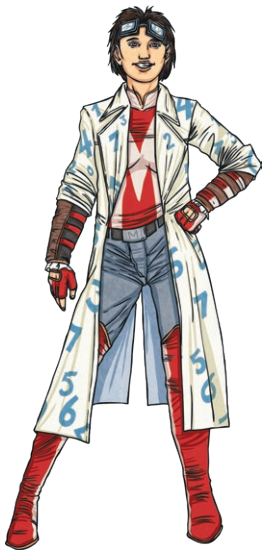


Choose one of the superhero numbers.

- Can you say the number?
- Can you compare two of the numbers?
- Can you order the numbers?

2,009

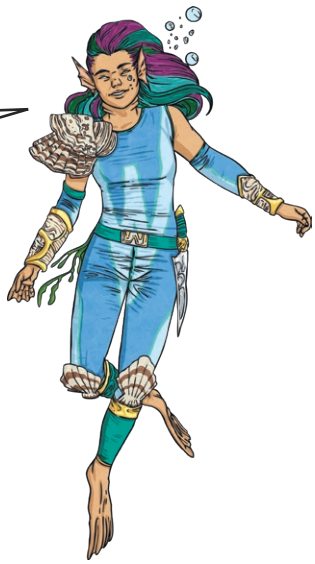
Two thousand and nineteen



2,090

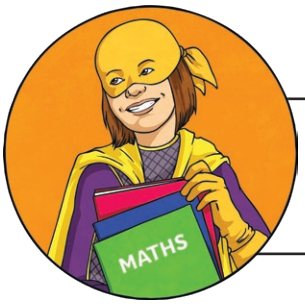
2,010.9

2,000 + 10 + 1 + 0.9



Two hundred and ninety

Extra Challenge: Create your own superhero number and challenge a friend to give the value of one of the digits.



Play this fun, superhero rounding game to practise rounding decimal numbers to the nearest whole number. You will need two dice.

Instructions:

- To decide who goes first, roll one of the dice. The player with the highest roll goes first.
- On your turn, roll both dice. Use the numbers rolled to create a decimal number with one decimal place.
- Round this decimal number to the nearest whole number and find that number on the game board. Write your initials on that square to claim it. If the square with the rounded number on it is already claimed, you miss a go.
- The first player to claim four squares in a row or column wins.

6	7	1	2	3
5	6	7	1	2
4	5	6	7	1
3	4	5	6	7
2	3	4	5	6

Have a go at solving these problems.

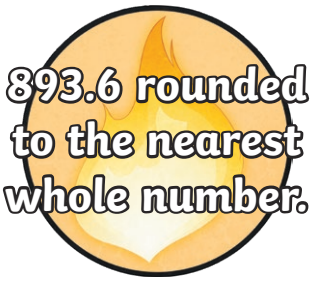
1. Which superhero badge will round to 7,080 when rounded to the nearest 10?

2. Which superhero badge shows 43,297 rounded to the nearest 1,000.

3. Colour the correct answer.

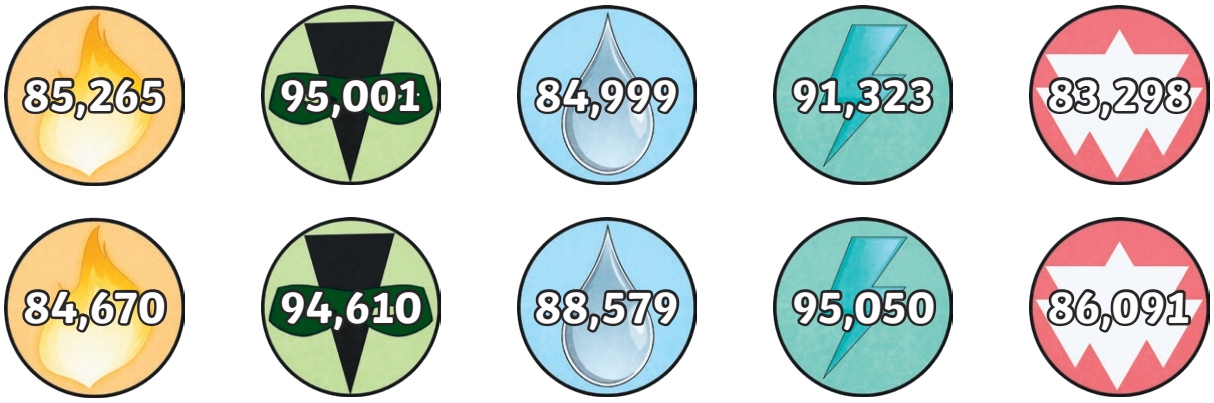
- ☐ 34.72
- ☐ 34.70
- ☐ 34.73

- ☐ 1,400,000
- ☐ 1,300,000
- ☐ 1,390,000



- ☐ 894
- ☐ 893
- ☐ 895

4. Circle the numbers that become 90,000 when rounded the nearest ten thousand.

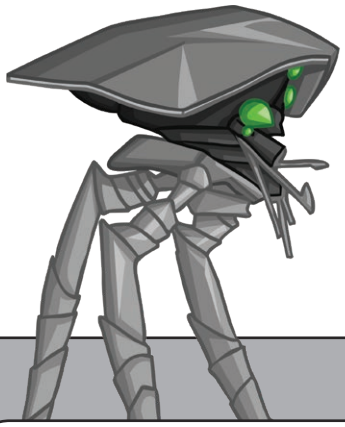


Look at this **incorrectly** completed SATs question.

- What is the important information to identify?
- How is it best to work out the answer?
- What advice would you give to the child who completed this question?

1. Write the number 73,029 in words.

seven hundred and thirty thousand and twenty–nine



Colour in the superhero strength-o-meter to show how you feel about each of these questions:

Can you read and write numbers?

Can you order and compare numbers?

Can you round numbers to different powers of 10?

Look at these superhero numbers.

- Can you find the total of two of the numbers?
- Can you find the difference between two of the numbers?

1,072

293

3,816

644

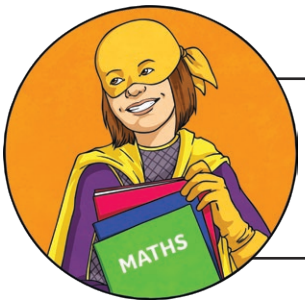
965.3

29.86

456,372

81,920

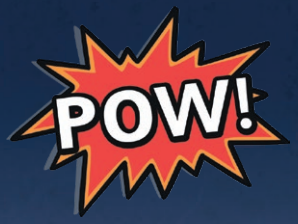
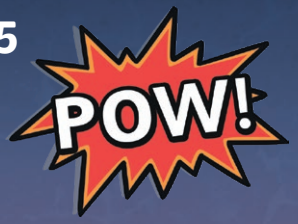
Extra Challenge: Can you find the total of three of the superhero numbers?

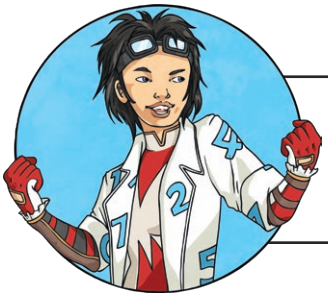


Play this fun, superhero board game to practise answering addition and subtraction word problems. You will need the **Superhero Challenge Cards** and a dice.

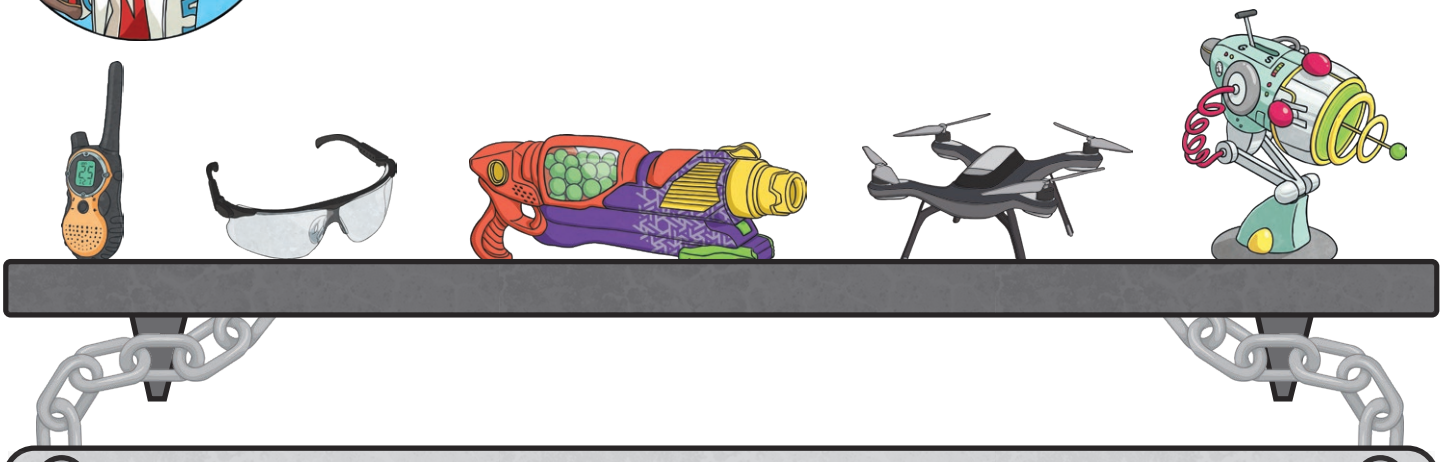
Instructions:

- Take it in turns to roll the dice and move around the board.
- If you land on a 'POW' space, take a challenge card and solve the word problem.
- If you get it right, score a point.
- You also score a point each time you pass 'START'.
- Finish the game when all the challenge cards have been used.
- The person with the most points is the winner!

Start	1	2	3 	4
15 				5
14 	Place the Superhero Challenge Cards Here			6
13				7 
12	11 	10	9	8



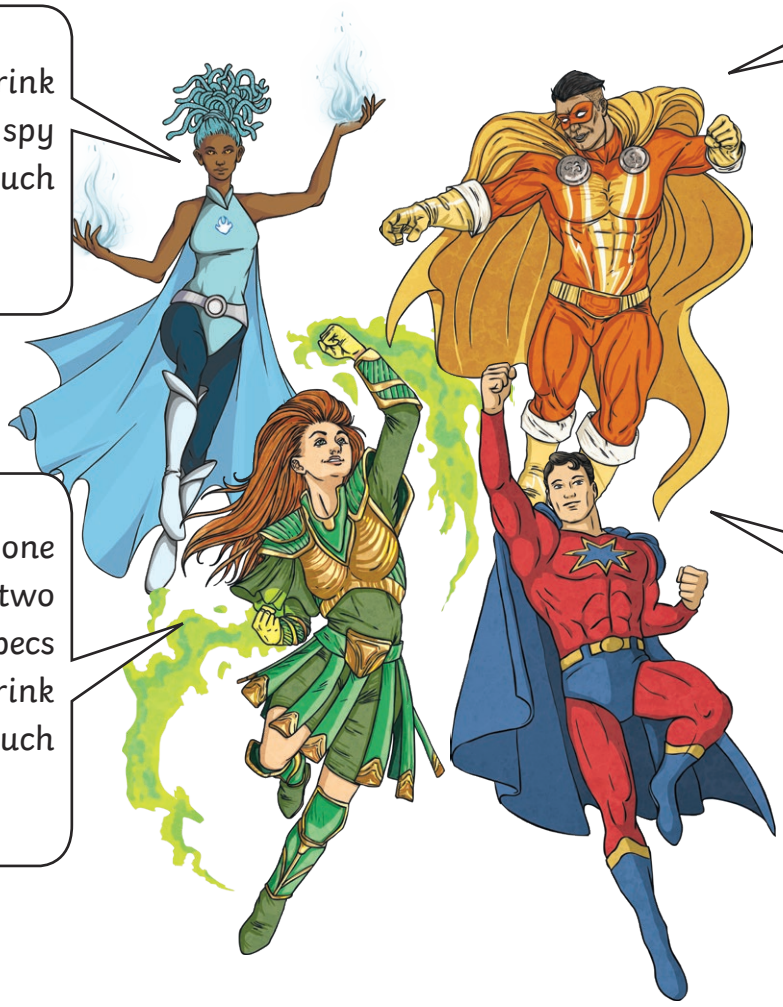
The superheroes are stocking up on gadgets at the super store. Work out how much money each superhero spent.



Walkie-talkies	X-ray specs	Ball blaster	Spy Drone	Shrink Laser
£18.67	£7.08	£26.47	£30.28	£35.79

I bought a shrink laser and a spy drone. How much did I spend?

I bought a ball blaster and one pair of x-ray specs. I paid with a £50 note. What change did I get?



I bought one walkie-talkie, two pairs of x-ray specs and one shrink laser. How much did I spend?

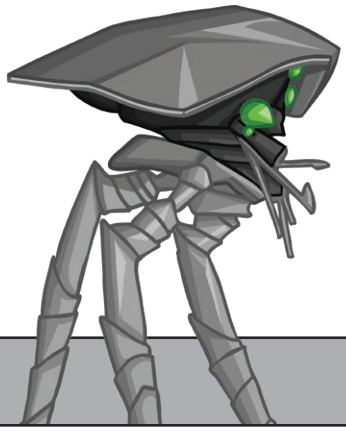
I bought a spy drone and a ball blaster. I paid with two £50 notes. What change did I get?

Look at this **incorrectly** completed SATs question.

- What is the important information to identify?
- How is it best to work out the answer?
- What advice would you give to the child who completed this question?

1. Write numbers in the boxes that will make this balancing calculation correct.

$$4 + \boxed{19} = \boxed{23} - 6$$



Colour in the superhero strength-o-meter to show how you feel about each of these questions:

Can you solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why?

Can you add and subtract numbers mentally with increasingly large numbers?

Can you add and subtract whole numbers with more than 4 digits, including using formal written methods?

Look at the superhero fractions.

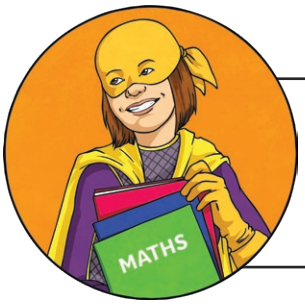
- Can you find the total of two of the fractions?
- How do you add together fractions that have different denominators?

$\frac{1}{6}$ $\frac{3}{4}$ $\frac{1}{2}$

$\frac{2}{3}$ $\frac{4}{5}$ $\frac{5}{7}$

$\frac{3}{8}$ $\frac{7}{10}$

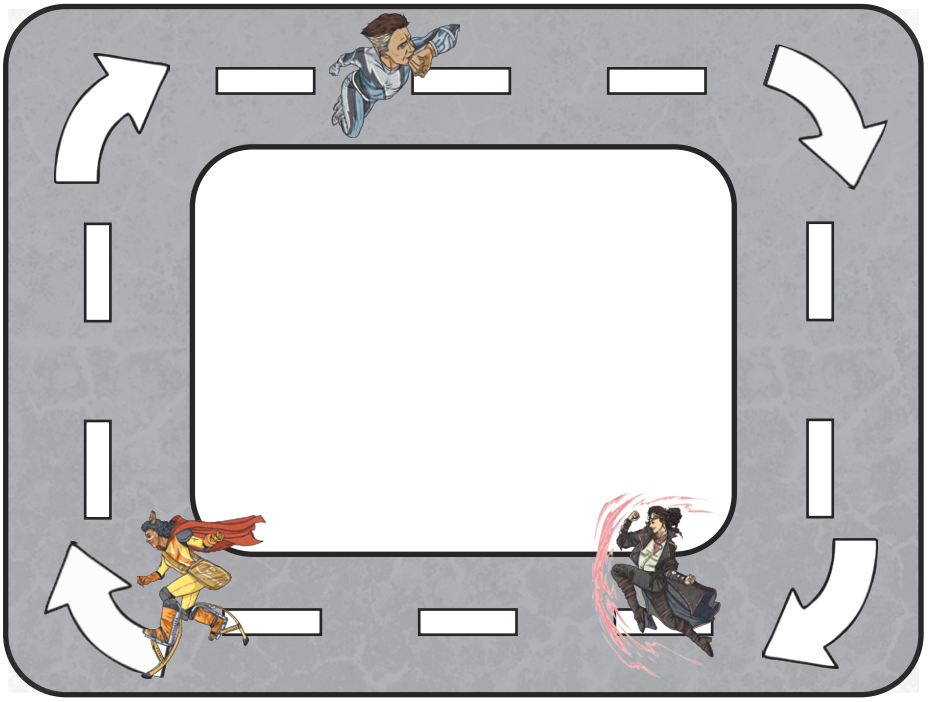
Extra Challenge:
If any of your answers are improper fractions or mixed numbers, can you convert them?

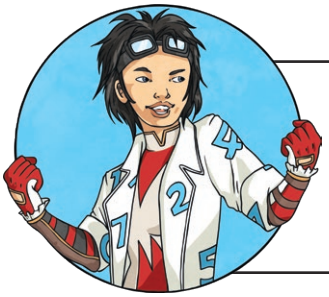


Play this fun, superhero dominoes game to practise making fractions that total one whole. You will need the **Fraction Dominoes**.

Instructions:

- The first player takes a domino and places it anywhere on the superhero racetrack.
- The second player finds a domino that matches to either end of the first domino and places it next to the first one on the track.
- Continue matching dominoes. Can you complete the superhero racetrack?





After a hard day of heroics, our superheroes take some time to chill out and have a pizza party. Find out what fraction of a whole pizza each superhero ate by adding the fractions below.

I ate $\frac{1}{3}$ of a pepperoni pizza and $\frac{1}{5}$ of a ham and pineapple pizza.

I ate $\frac{1}{4}$ of a seafood pizza and $\frac{1}{7}$ of a meat feast pizza.

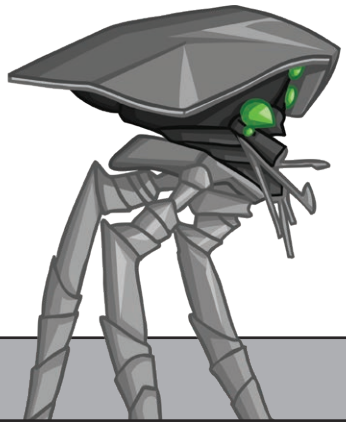
I ate $\frac{3}{8}$ of a cheese and tomato pizza and $\frac{1}{6}$ of a chicken supreme pizza.

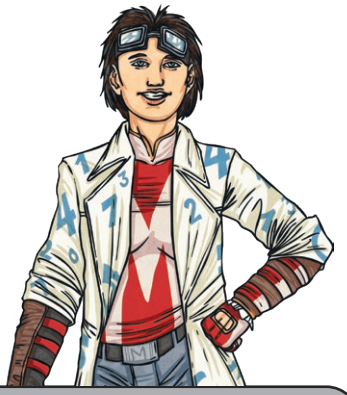
Extra Challenge: If one superhero ate $\frac{2}{5}$ of a whole pizza and another superhero ate another $\frac{1}{3}$ of the same pizza, what fraction of the whole pizza will be left?

Look at this **incorrectly** completed SATs question.

- What is the important information to identify?
- How is it best to work out the answer?
- What advice would you give to the child who completed this question?

$$1\frac{1}{6} - \boxed{\frac{7}{12}} = \frac{9}{12}$$





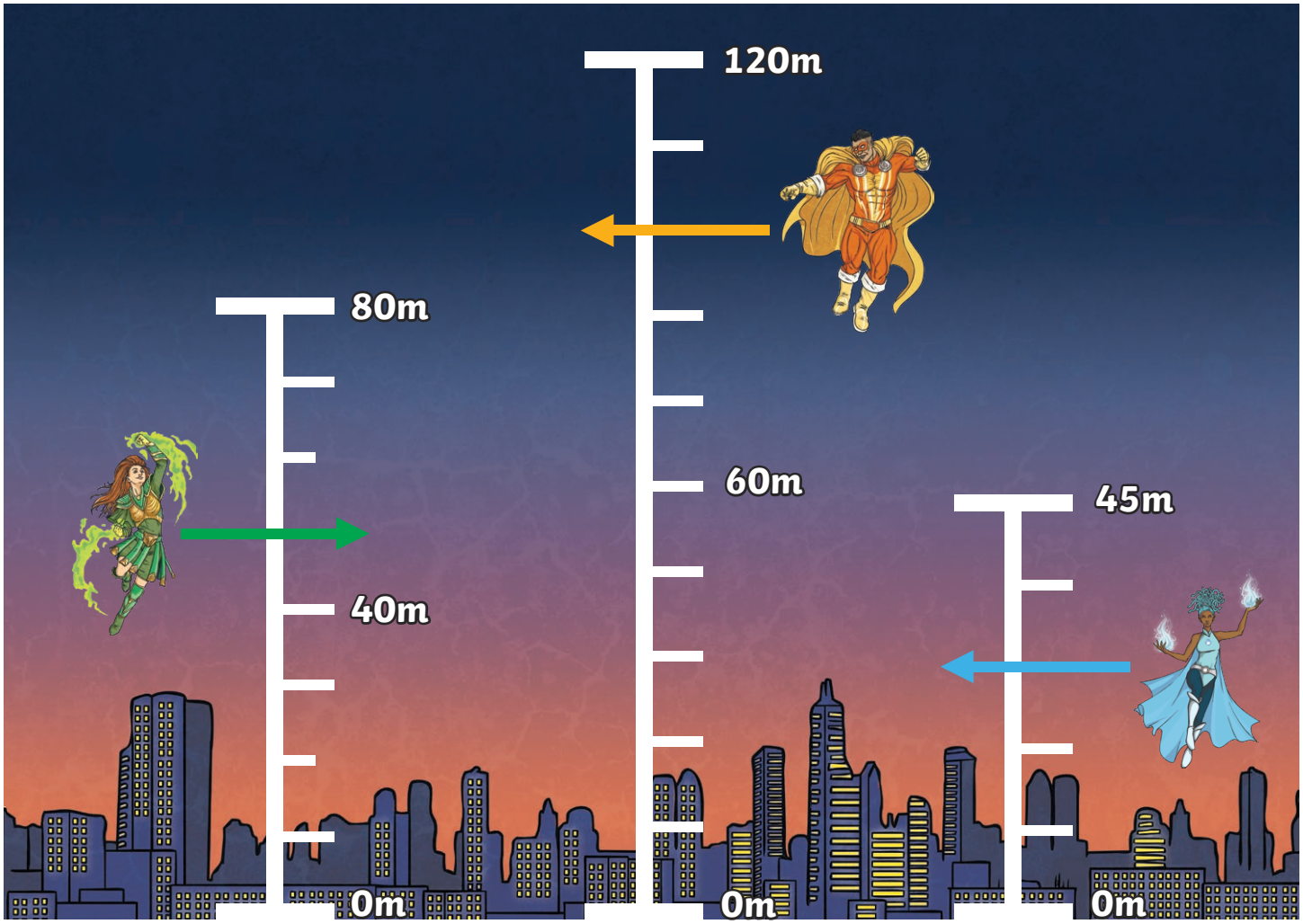
Colour in the superhero strength-o-meter to show how you feel about each of these questions:

Can you add fractions with different denominators and mixed numbers?

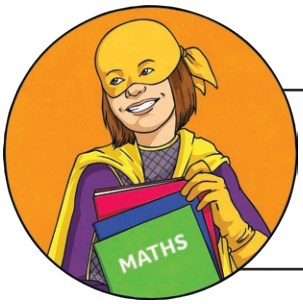
Can you subtract fractions with different denominators and mixed numbers?

Can you find common denominators to help with adding and subtraction fractions?

Look at the scales and work out the increment each is increasing by. Use the scales to find out how high the superheroes are flying.



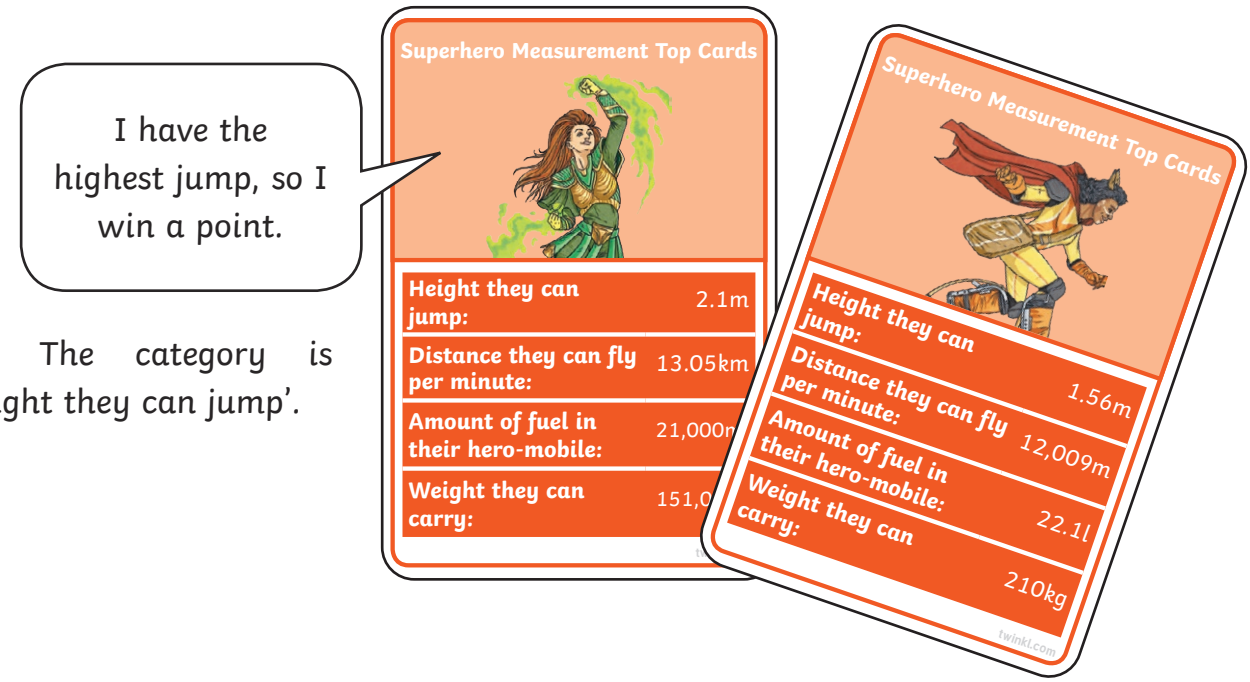
Extra Challenge: Challenge a friend to identify another position on the scales.



Play this fun, superhero card game to practise comparing standard units of measurement. You will need the **Superhero Measurement Top Cards**.

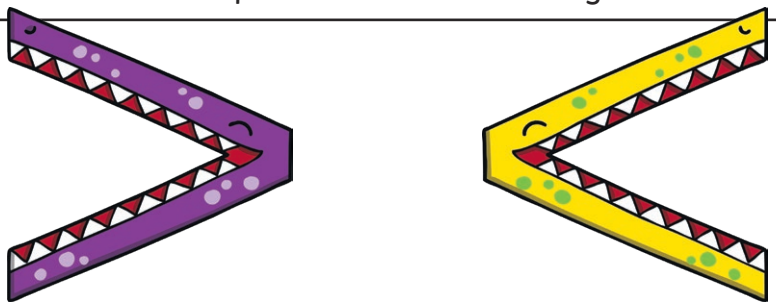
Instructions:

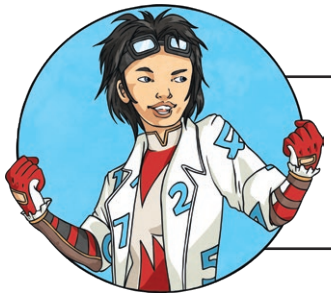
- Before playing each round, decide which superhero category to compare; tallest jump, heaviest weight carried, or hottest body temperature achieved.
- During each round, each player turns over a Measurement Top Card.
- Compare the measurement of the superheroes for the category being played. The player who has the greatest measurement wins a point!



E.g. The category is 'Height they can jump'.

Extra Challenge: During each round of the game, can you use the greater than and less than symbols to write down a comparison statement using the measurements?





Have a go at answering these questions.

1. Use <, > or = to complete these comparison statements.

10cm		150mm
2,050ml		2l
1,000g		1.5kg

2. Match the equivalent measures.

500g	5kg
5,000g	0.5kg
55g	0.055kg
550g	0.55kg

3. A jug contains 1.2 litres of orange juice.

   Lucy drinks 200ml and pours 500ml into some cups.

   How much juice is leftover in the jug in litres?

   Show your working out.

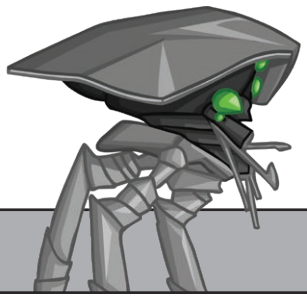
litres

Look at this **incorrectly** completed SATs question.

- What is the important information to identify?
- How is it best to work out the answers?
- What advice would you give to the child who completed this question?

Two children take part in a sponsored bike ride.
Callum rides 2.6km.
Emily rides 2,080m.
Who travelled the furthest distance?
Show your working out.

Callum: 2.6km = 2006m
Emily = 2080m
Emily travelled the furthest distance.



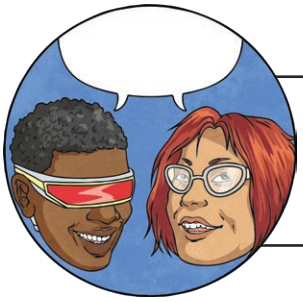
Colour in the superhero strength-o-meter to show how you feel about each of these questions:

Can you accurately read scales of different increments?

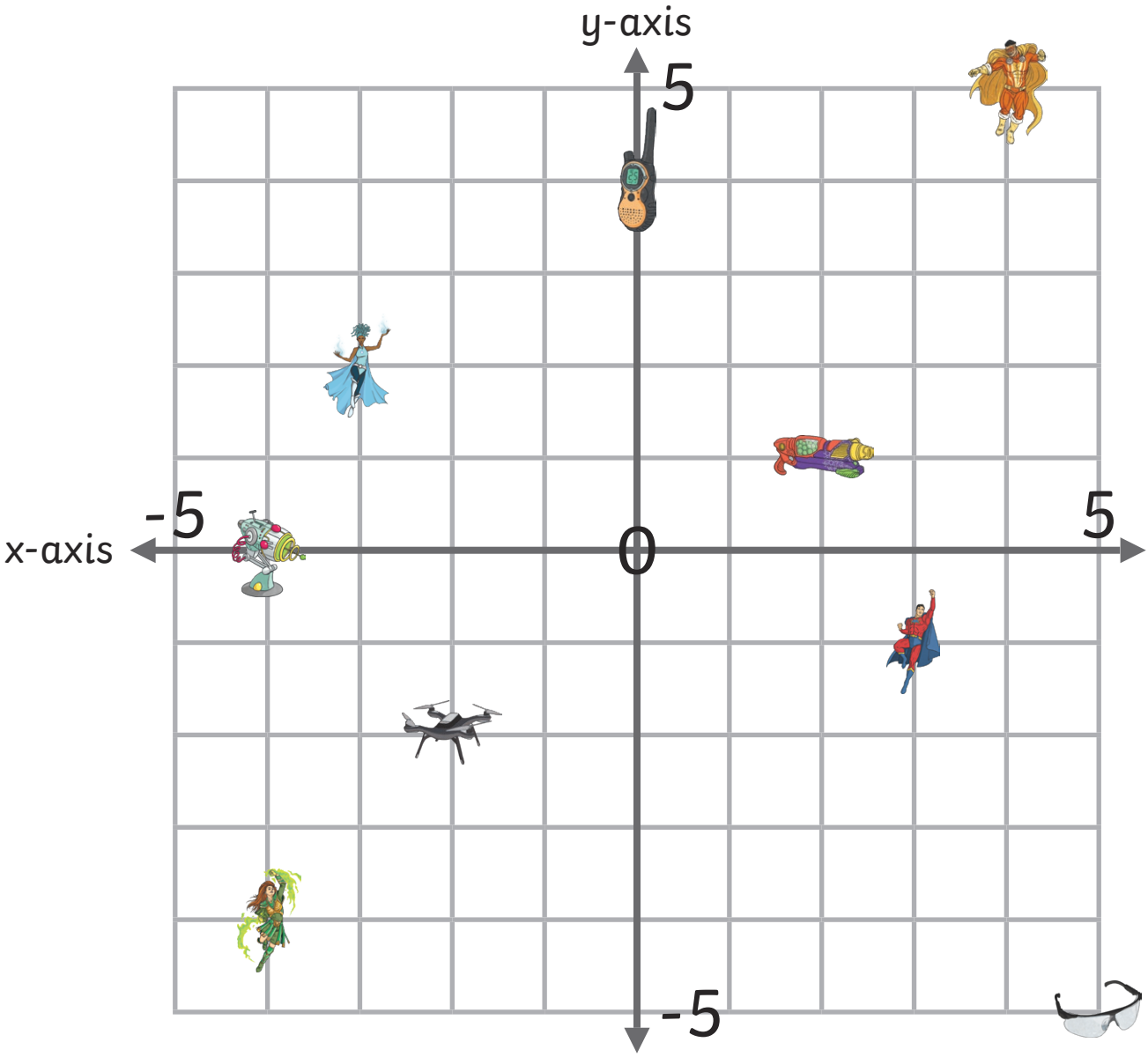
Can you convert between different units of measure?

Can you compare and order and describe measurements?

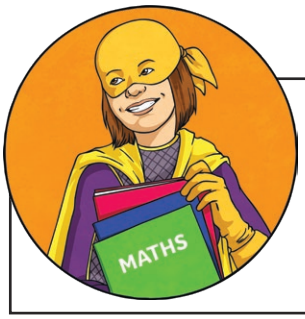
Can you solve problems involving converting measurements?



Look at the four-quadrant superhero grid. Can you give the coordinate positions of the different objects?



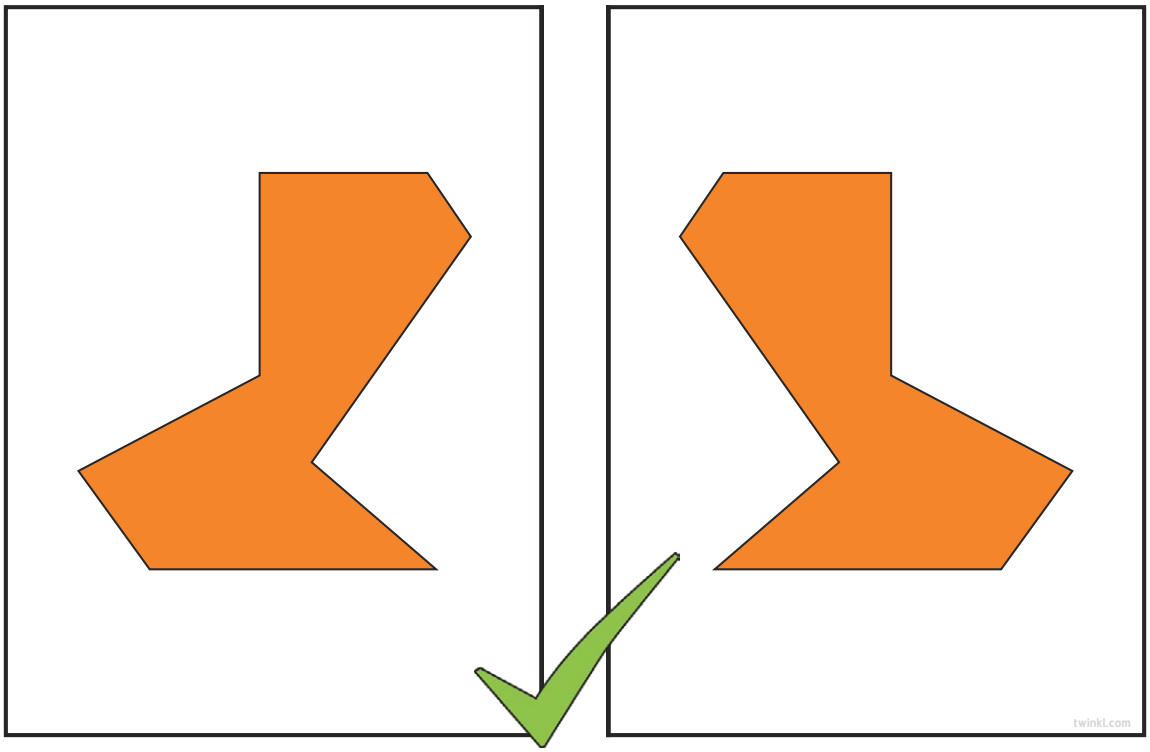
Extra Challenge:
Choose one of the superhero objects and give your partner a translation instruction. Can they correctly give the new coordinate position of the translated object?



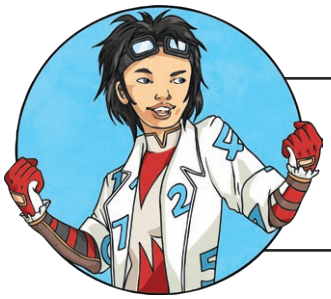
Play this fun card matching game to practise describing and representing the position of a shape following a reflection. You will need the **Superhero Reflection Matching Cards**.

Instructions:

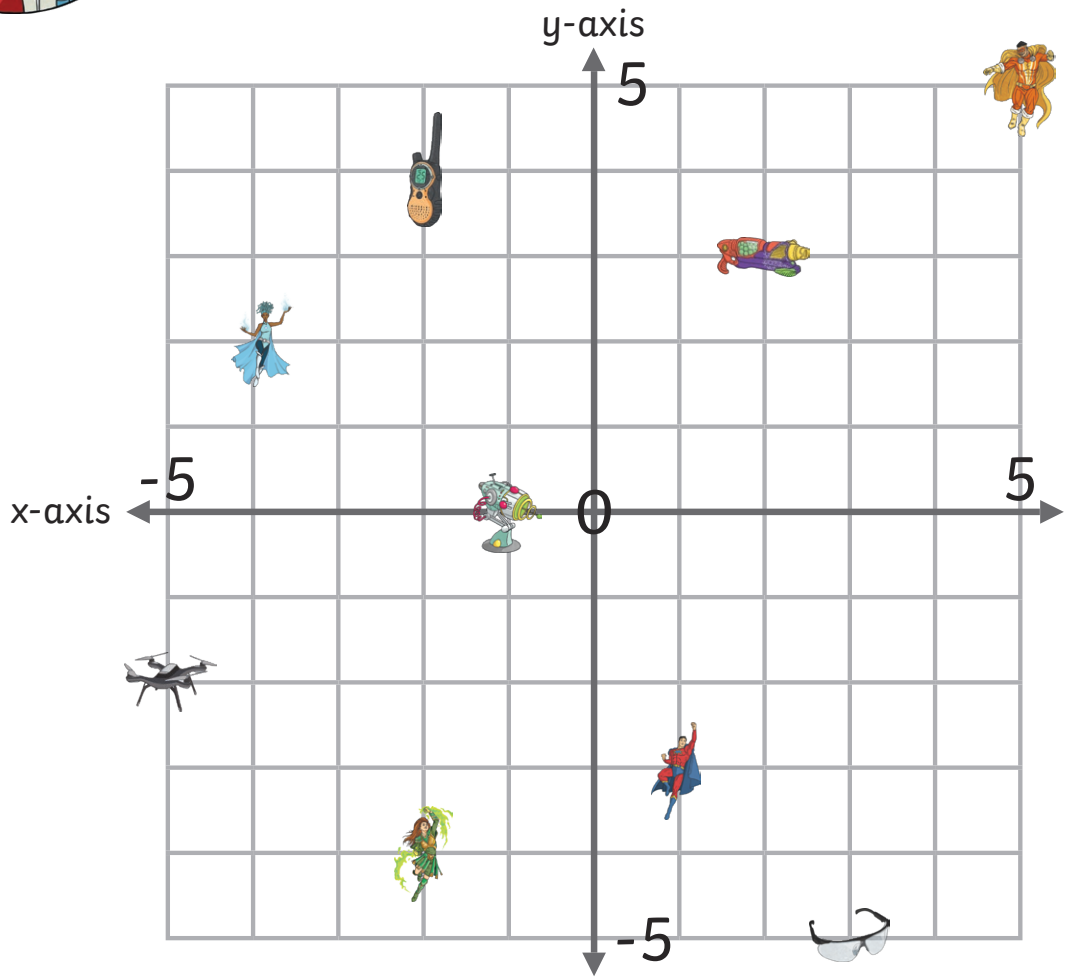
- Spread the **Superhero Reflection Matching Cards** face down on the table.
- On your go, turn over two cards. Place them together to see if they show a correct reflection over the mirror line. If they do, you keep the cards. If they don't, you turn them back over.
- The player who collects the most cards wins!



Extra Challenge:
Add a coordinate position to one vertex of the 2D shape on one card for each matching pair. When the cards are matched, can you describe the coordinate position of the reflected vertex?



Write the coordinates of the superhero objects, then translate them and write the new coordinate:

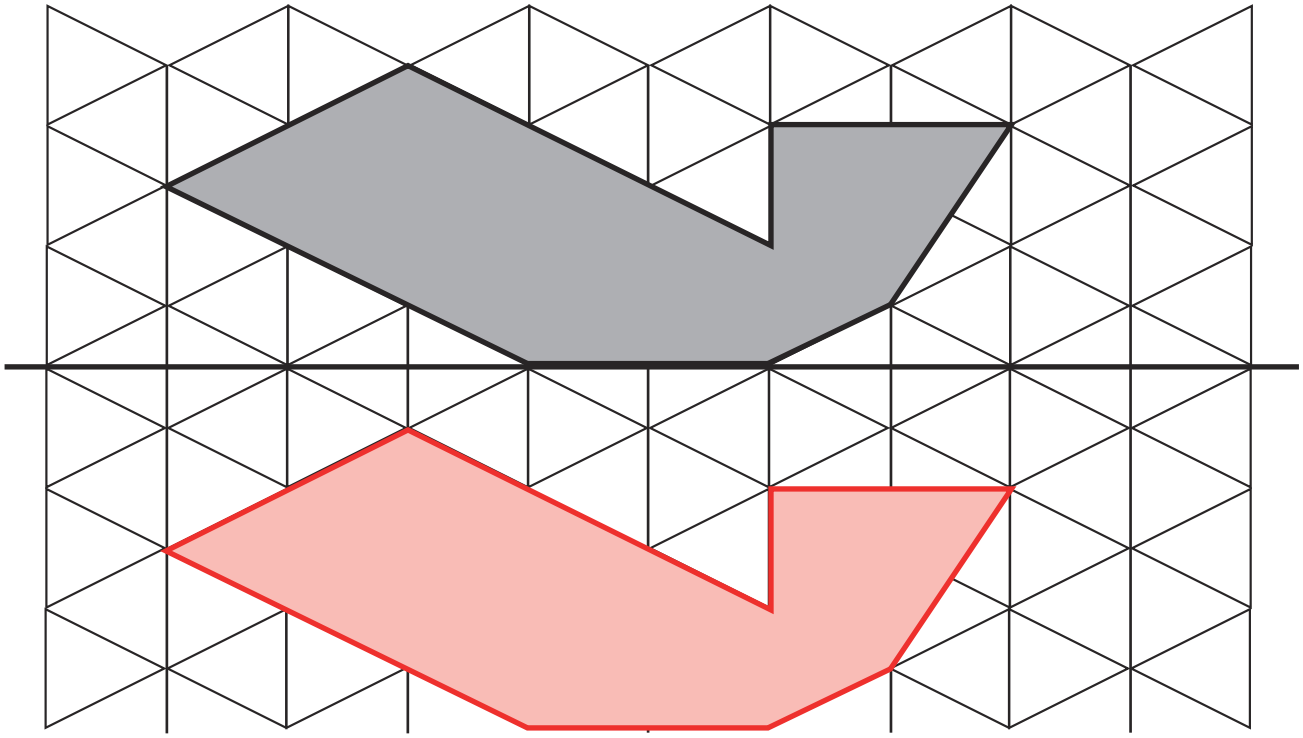


Object	Original Coordinate	Translation	Finishing Coordinate
	(,)	Left 6, Down 4	(,)
	(,)	Right 8, Down 5	(,)
	(,)	Right 4, Up 3	(,)
	(,)	Left 3, Up 6	(,)
	(,)	Left 7, Down 2	(,)
	(,)	Right 1, Up 4	(,)

Look at this **incorrectly** completed SATs question.

- What is the important information to identify?
- How is it best to work out the answers?
- What advice would you give to the child who completed this question?

1. Reflect and draw this shape over the x-axis:



Colour in the superhero strength-o-meter to show how you feel about each of these questions: