

Activity Booklet 2

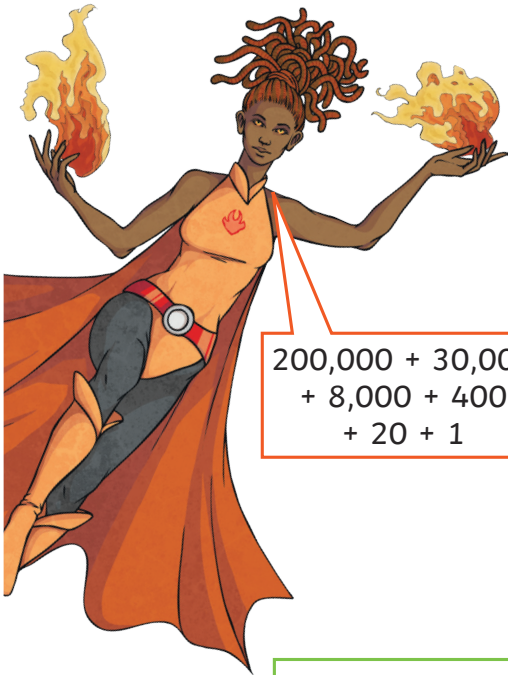
Name: _____





Look carefully at the superhero numbers.

- Can you say the number?
- Can you order and compare the numbers?
- Can you give the value of a specified digit?
- Can you round the number to a specified degree of accuracy?



$$200,000 + 30,000 + 8,000 + 400 + 20 + 1$$

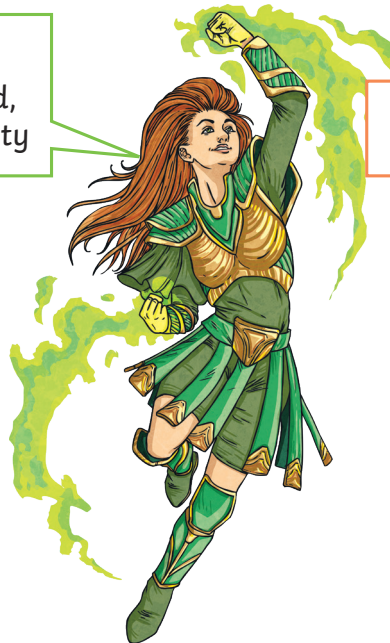


238,519

two hundred and thirty-nine thousand, five hundred and twelve



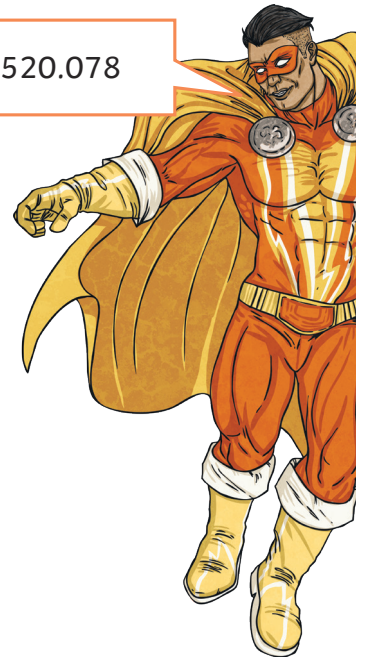
two hundred and thirty-eight thousand, five hundred and ninety



238,520.078

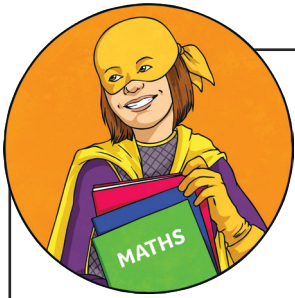


238,520.78



Extra Challenge

Create your own superhero number and round it to different powers of 10.



Look carefully at these problems involving large numbers and decimal numbers.

- What do we have to do to answer the question?
- What important information do we need to identify?

1. Put these numbers in order from smallest to greatest.

34.97

34.097

3.497

34.09

340.97

--	--	--	--	--

smallest

greatest

2. Use the symbols $<$, $>$ and $=$ to compare these pairs of numbers.

45,098

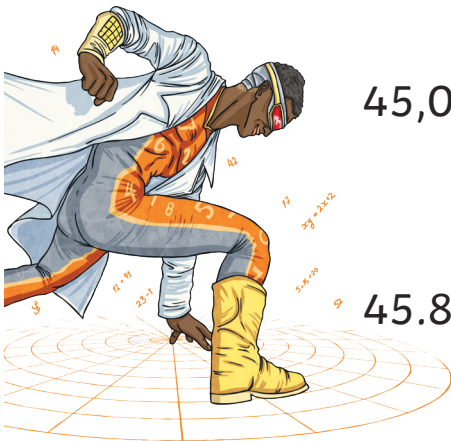
45,089

45,000

45 thousand

45.809

45.89



3. Round 37,561

to the nearest 10

to the nearest 100

to the nearest 1,000



Have a go at answering these questions.

1. Put these numbers in order from smallest to greatest.

37,737

33,777

37,373

33,377

37,337

--	--	--	--	--

smallest

greatest

2. Use the symbols $<$, $>$ and $=$ to compare these pairs of numbers.



65.56

65.65

7.07

7.007

0.03

3 hundredths



3. Round 20.367

to the nearest hundredth

to the nearest tenth

to the nearest whole number

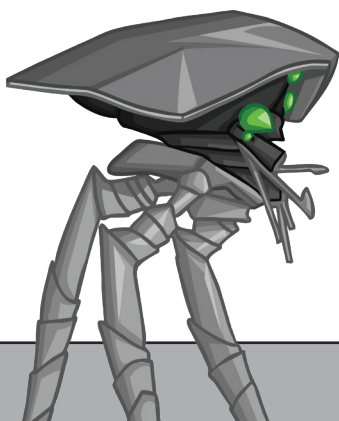


Look at this **incorrectly** completed question.

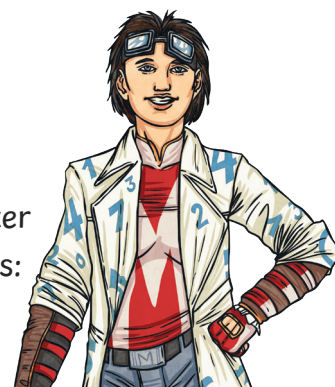
- What is the important information to identify?
- How is it best to work out the answer?
- What advice would you give to the child who completed this question?

1. Write the number 5,673,029 in words.

Five hundred and sixty-seven thousand and twenty-nine.



Colour in the superhero strength-o-meter to show how you feel about your maths:



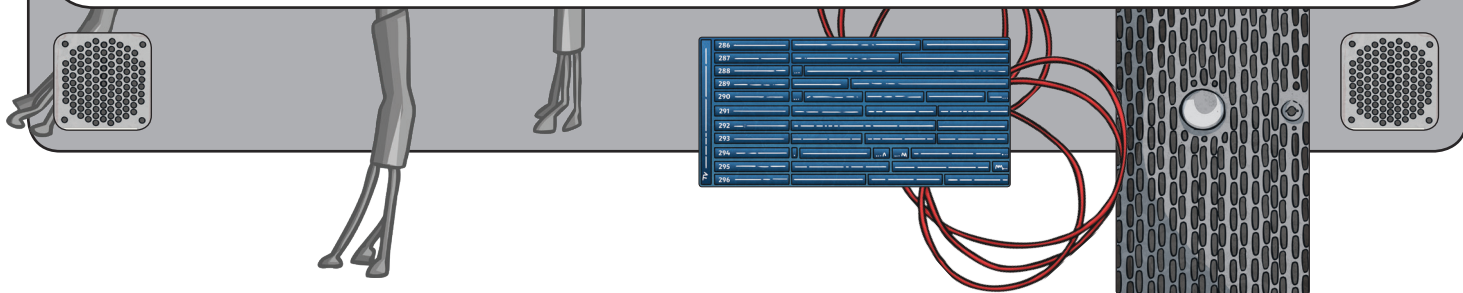
Can you read and write numbers?



Can you order and compare numbers?



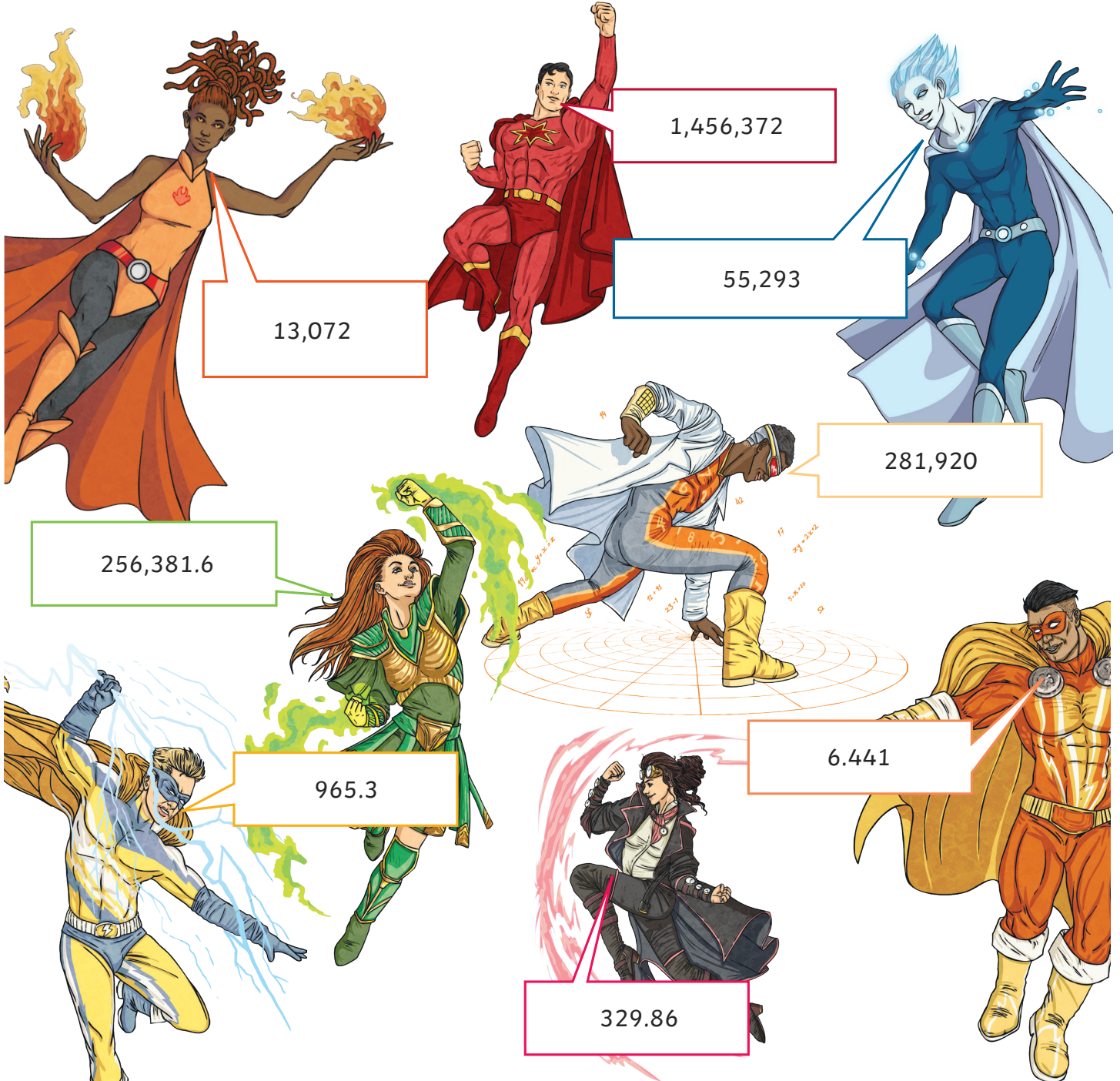
Can you round numbers to different powers of 10?





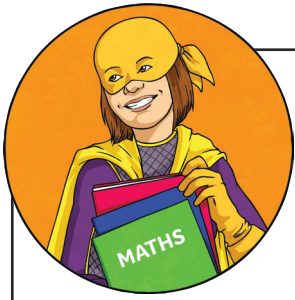
Look at these superhero numbers.

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



Extra Challenge

Can you find the total of any three of the superhero numbers?



Look carefully at these problems involving addition and subtraction of large whole numbers and decimals.

- What do we have to do to answer the question?
- What important information do we need to identify?

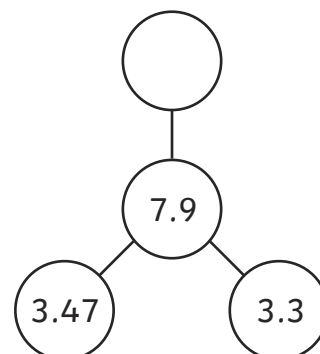
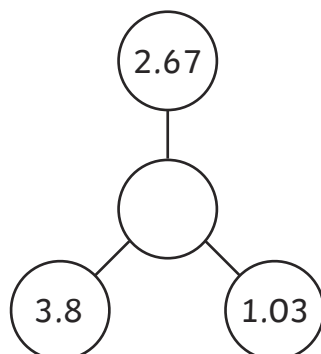
1. Write numbers in the boxes that will make this balancing calculation correct.

$$\boxed{} + 245 = 827 - \boxed{}$$

2. Professor Fire flies 3,503km from Monday to Friday and 1,467km over the weekend. Captain Frozen flies 4,075km over the whole week. How many more kilometres does Professor Fire fly than Captain Frozen?



3. In the following puzzles, the number in the middle is the total of the three numbers on the outside. Complete each puzzle.





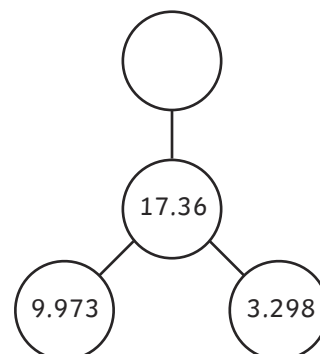
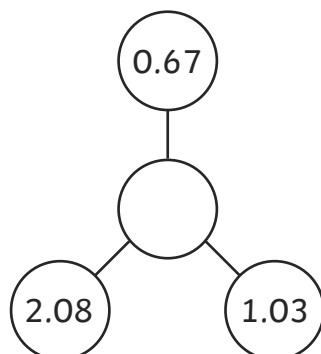
Have a go at answering these questions.

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

$$\boxed{} + 367 = 491 - \boxed{}$$

2. Professor Fire flies 76,398km from Monday to Friday and 4589km over the weekend. Captain Frozen flies 83,204km over the whole week. How many more kilometres does Captain Frozen fly than Professor Fire?

3. In the following puzzles, the number in the middle is the total of the three numbers on the outside. Complete each puzzle.



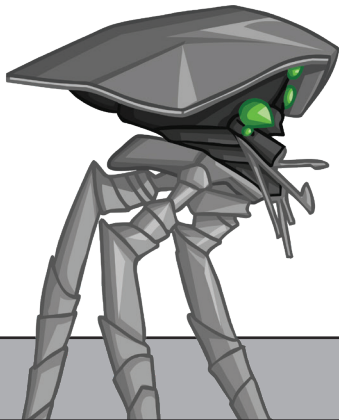


Look at this **incorrectly** completed question.

- 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.

$$\boxed{3} - 0.6 = 0.4 + \boxed{2.1}$$



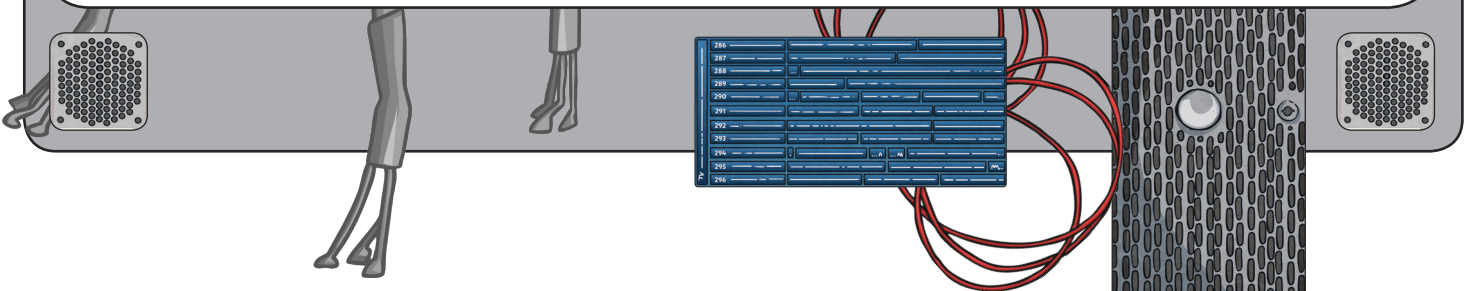
Colour in the superhero strength-o-meter to show how you feel about your maths:



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 these superhero numbers.

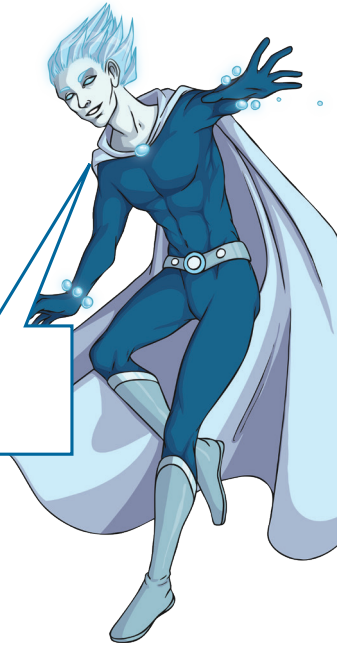
- Can you find the total of any two of the fractions?
- How do you add together fractions that have different denominators?



$$\frac{2}{7}$$



$$\frac{3}{8}$$

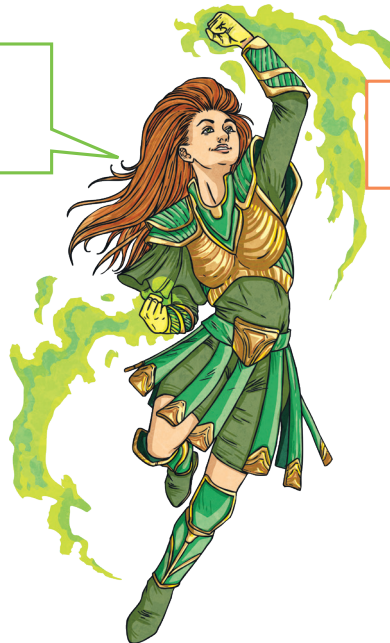


$$\frac{7}{10}$$

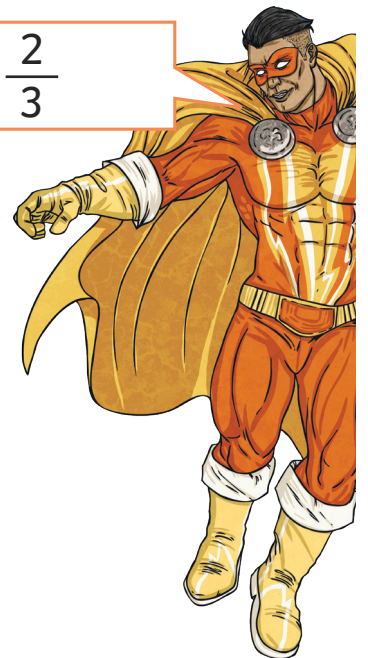


$$\frac{2}{9}$$

$$\frac{5}{12}$$

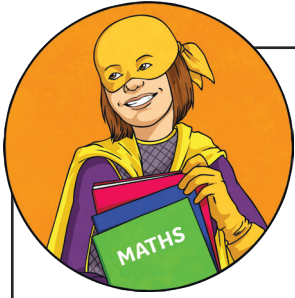


$$\frac{2}{3}$$



Extra Challenge

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



Look carefully at these problems involving adding and subtracting fractions with different denominators.

- What do we have to do to answer the question?
- What important information do we need to identify?

1. Two superheroes are having a fireball throwing competition.

The winner throws $\frac{3}{5}$ of their fireballs into the target ring.

The runner up throws $\frac{2}{7}$ of their fireballs into the target ring.

What fraction of all the fireballs thrown landed in the target ring?

2. The superheroes work together to rescue a group of people from an erupting volcano.

$\frac{4}{7}$ of the people rescued have blonde hair.

$\frac{2}{9}$ of the people rescued have brown hair.

The remaining people all have red hair. What fraction of the group of people have red hair?



Have a go at answering these questions.

1. Two superheroes are having a fireball throwing competition.

The winner throws $\frac{5}{6}$ of their fireballs into the target ring.

The runner up throws $\frac{6}{11}$ of their fireballs into the target ring.

What fraction of all the fireballs thrown landed in the target ring?



2. The superheroes work together to rescue a group of people from an erupting volcano.

$\frac{4}{9}$ of the people rescued have blonde hair.

$\frac{5}{12}$ of the people rescued have brown hair.

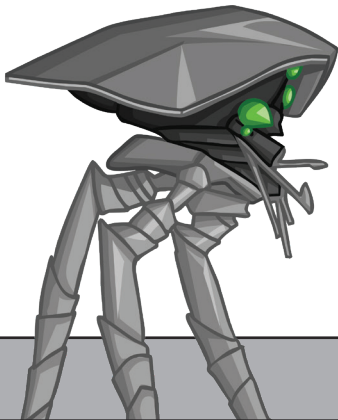
The remaining people all have red hair. What fraction of the group of people have red hair?



Look at this **incorrectly** completed 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?

$$1 \frac{5}{6} + \frac{5}{7} = 2 \frac{17}{42}$$



Colour in the superhero strength-o-meter to show how you feel about your maths:



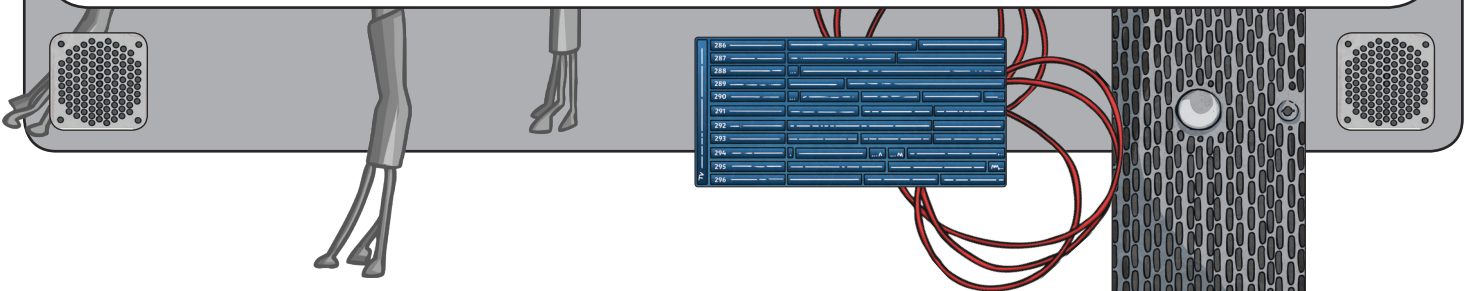
Can you add fractions with different denominators and mixed numbers?



Can you subtract fractions with different denominators and mixed numbers?



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





Look at the scales and estimate where the superhero values are.



Find 1.3 litres



Find 8,000g



Find 4.85kg

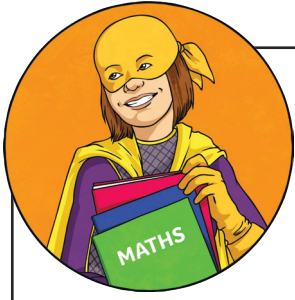


Find 90ml



Extra Challenge

Challenge a friend to identify another position on the scales.



Look carefully at these problems involving different measures.

- What do we have to do to answer the question?
- What important information do we need to identify?

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

2kg

1,500g

500m

5km

2,000ml

2l

2. Captain Frozen has a 2kg bag of energy crystals to power her supercar. She pours 537g into a one container and another 1.208kg into a second container. How many energy crystals does Captain Frozen have left? Give your answer in kg.

km

3. Professor Fire drives 2.507km and flies 328m to his next rescue mission. The Green Flash drives 1,883m and flies 0.502km to her next rescue mission. What is the difference in km between their two journeys?

km



Have a go at answering these questions.

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

21.3cm

212mm

5.09l

5,010ml

10,040g

10.4kg

2. Captain Frozen has a 3kg bag of energy crystals to power her supercar. She pours 1,476g into a one container and another 0.105kg into a second container. How many energy crystals does Captain Frozen have left? Give your answer in kg.

km

3. Professor Fire drives 1.78km and flies 209m to his next rescue mission. The Green Flash drives 1,549m and flies 0.48km to her next rescue mission. What is the difference in km between their two journeys?

km

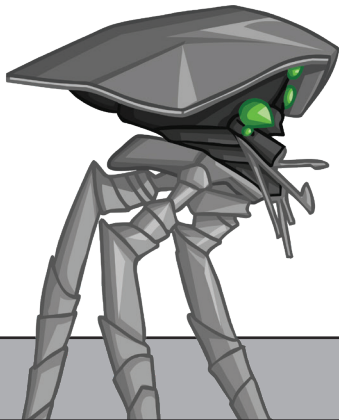


Look at this **incorrectly** completed question.

- 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?

Lilly and Ben were taking part in a cross-country challenge. Lilly ran for 0.602km and walked for 753m. Ben ran for 0.854km and walked for 498m. Who travelled the furthest? Explain your answer.

Ben travelled the furthest because he ran for 1360m, but Ben only travelled for 1355m which is less.



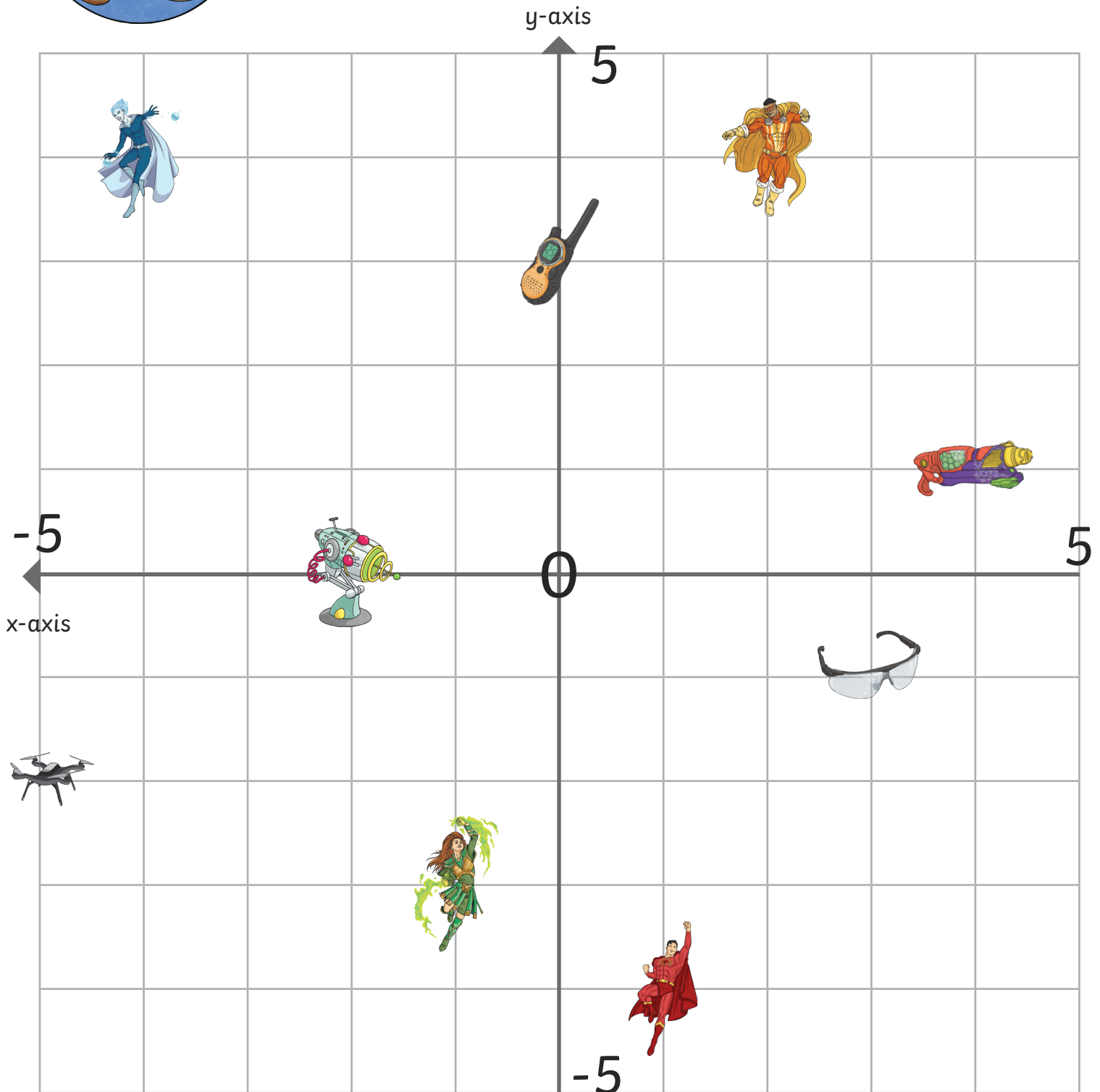
Colour in the superhero strength-o-meter to show how you feel about your maths:



	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Can you accurately read scales of different increments?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Can you convert between different units of measure?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Can you compare, order and describe measurements?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Can you solve problems involving converting measurements?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

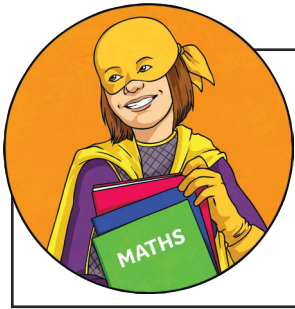


Look at the four-quadrant, superhero grid. Can you give the coordinate positions of the different objects?



Extra Challenge

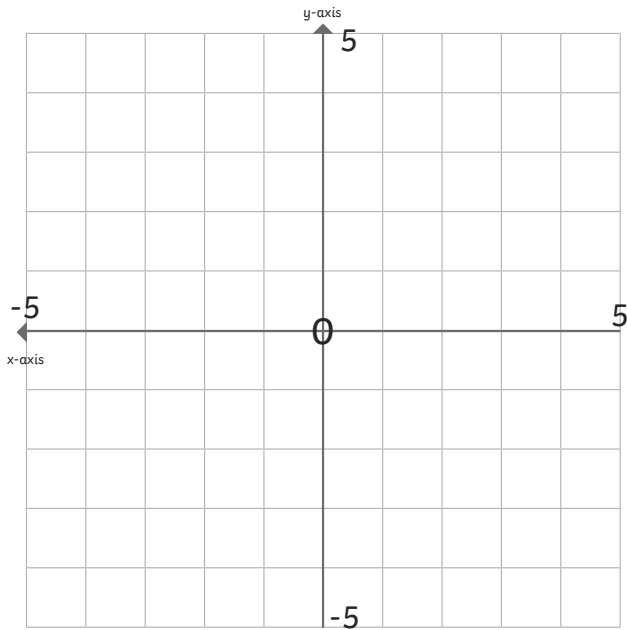
Choose one of the superhero objects and give your partner a translation instruction. Can they correctly give the new coordinate position of the translated object?



Look carefully at these problems involving position and direction.

- What do we have to do to answer the question?
- What important information do we have to identify?

1. Plot and join these coordinates on the grid and name the 2D shape drawn.



$(-3, 2)$

$(-5, 0)$

$(-2, -3)$

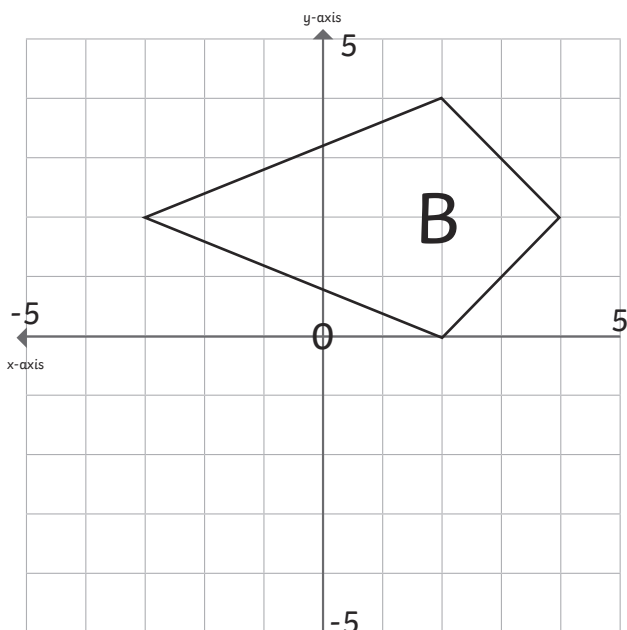
$(4, 3)$

$(2, 5)$

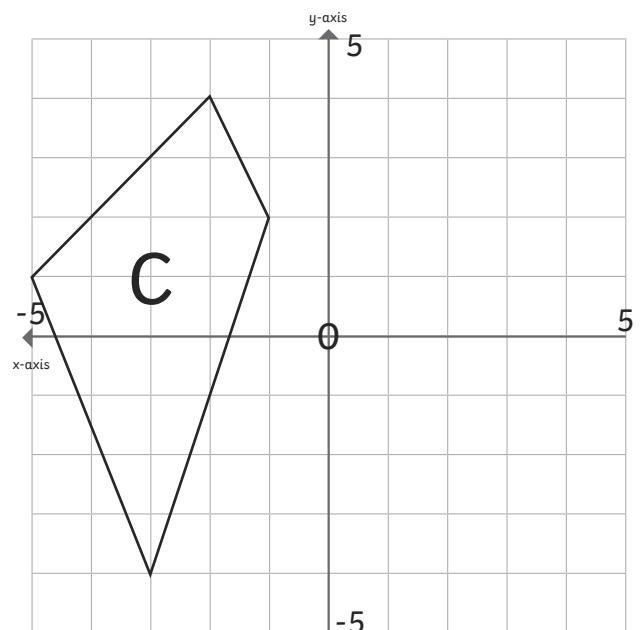
$(-2, 1)$

2D shape: _____

3. Shape B is translated left 1 and down 4. Draw the translated shape on the coordinate grid



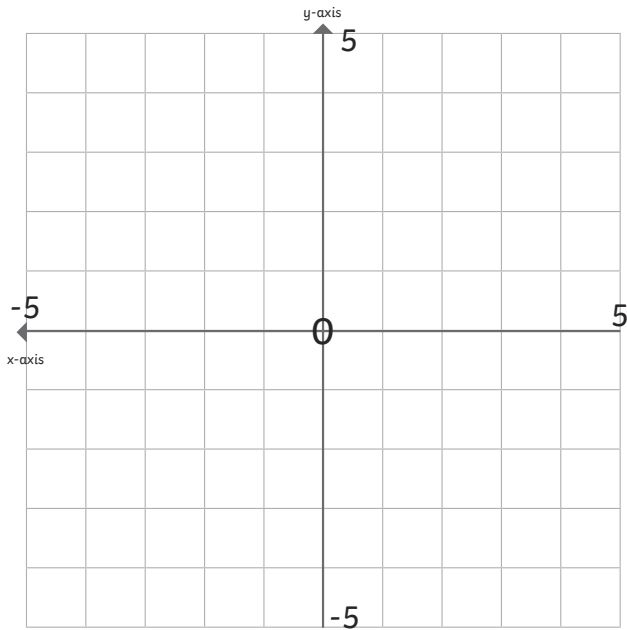
2. Shape C is reflected over the y-axis. Draw the reflected shape on the coordinate grid.





Have a go at answering these questions.

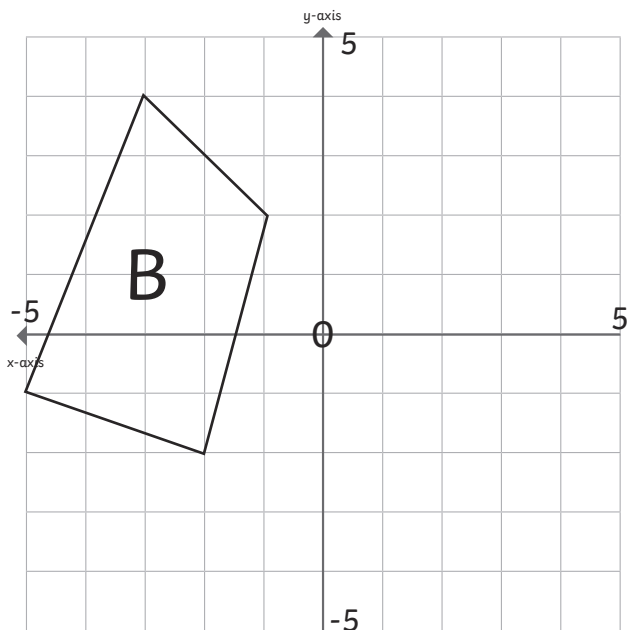
1. Plot and join these coordinates on the grid and name the 2D shape drawn.



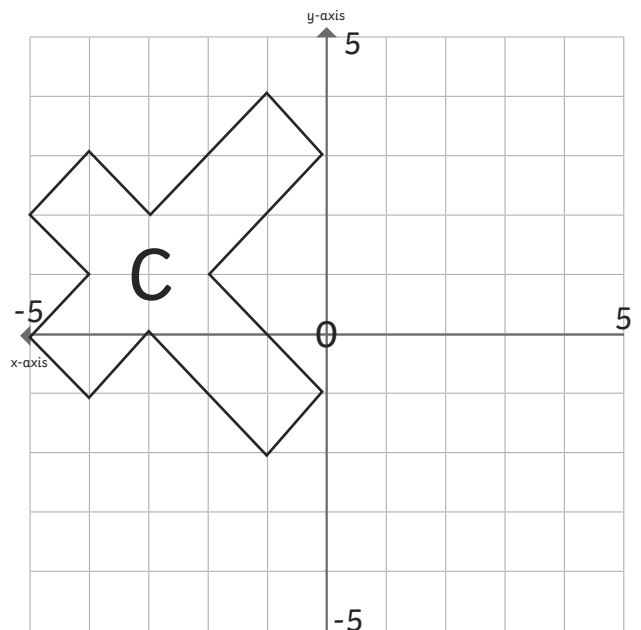
- (1,-5)
- (1,4)
- (-3,2)
- (-3,-3)

2D shape: _____

3. Shape B is translated right 4 and down 2. Draw the translated shape on the coordinate grid.



2. Shape C is reflected over the y-axis. Draw the reflected shape on the coordinate grid.

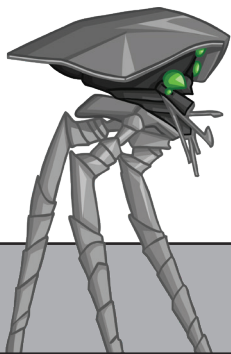
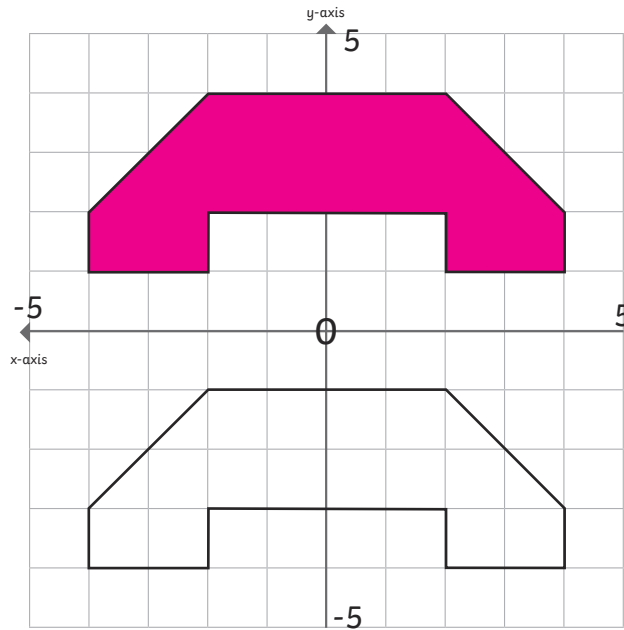




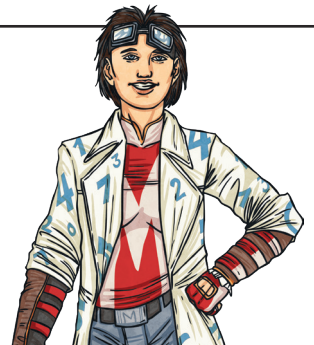
Look at this **incorrectly** completed question.

- 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 your maths:



Can you identify, describe and represent the position of a shape following a reflection or translation?

Can you describe positions on a four-quadrant, coordinate grid?