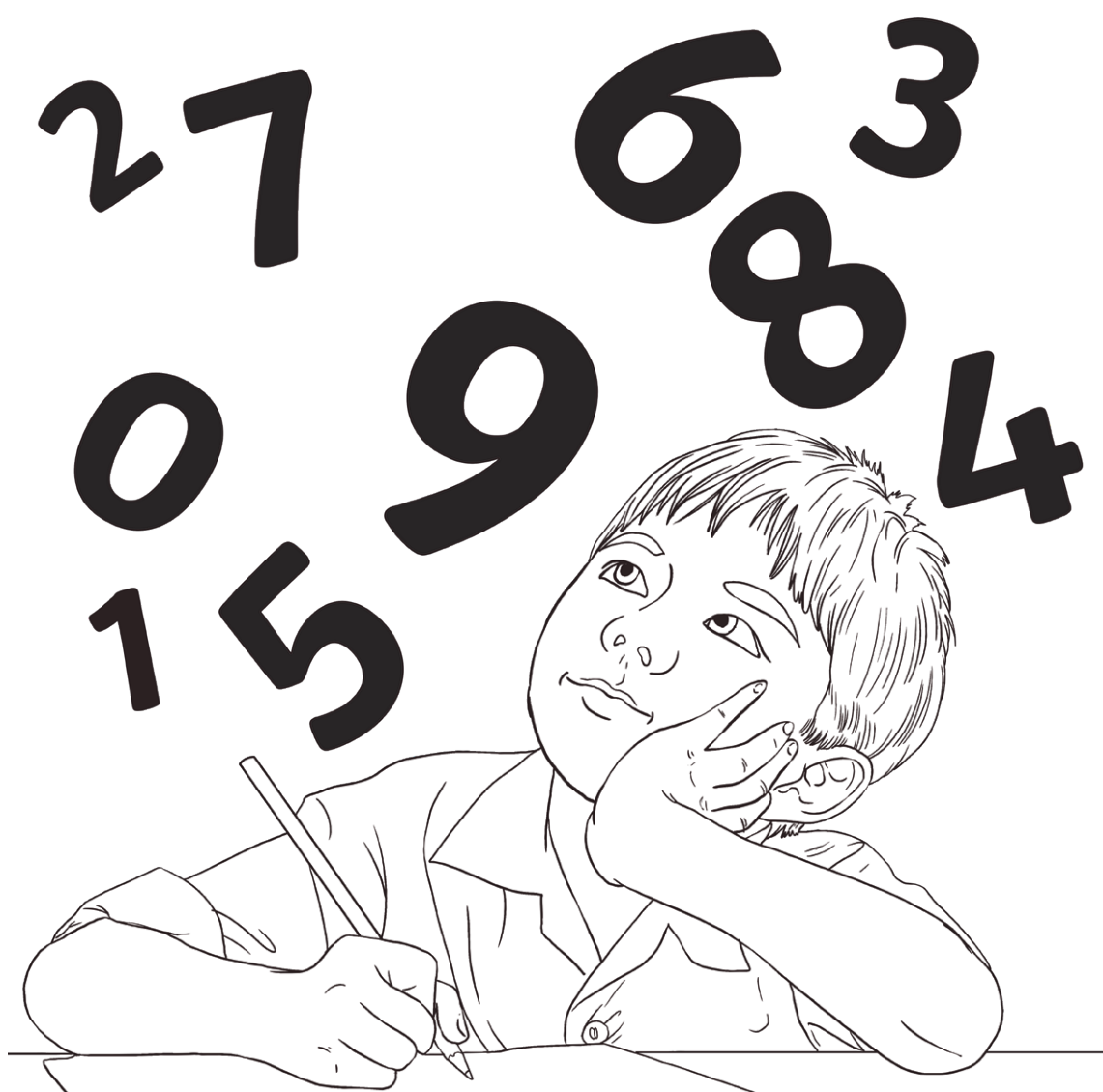


# Maths Activity Booklet



# Number and Place Value

1. Continue these number sequences:

9, 18, 27, 36, 45, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,

775, 750, 725, 700, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,

5, 4, 3, 2, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,

2. Find 100 less than these numbers:

3912 \_\_\_\_\_

9201 \_\_\_\_\_

1083 \_\_\_\_\_

3. Find 1000 less than these numbers:

59 003 \_\_\_\_\_

17 351 \_\_\_\_\_

20 882 \_\_\_\_\_

4. What is the value of the underlined digit in each number?

1846 \_\_\_\_\_

2004 \_\_\_\_\_

1589 \_\_\_\_\_

5. Put these numbers in order from smallest to largest.

10 111

11 011

10 011

11 110

11 101

**Smallest**

**Largest**

6. Compare these numbers using  $<$ ,  $>$  or  $=$ .

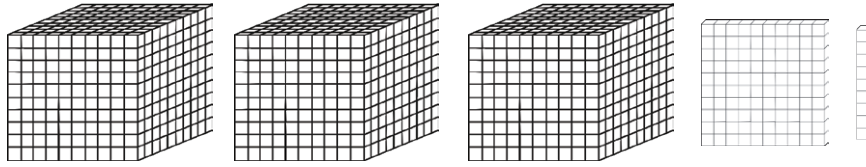
454  544

660  606

2 tens 4 ones  24 ones

# Representing Number

1. What number is shown below? \_\_\_\_\_



2. Complete the table, showing the numbers in numerals and words.

|        |   |
|--------|---|
| 2109   |   |
|        | One thousand, two hundred and ninety-three. |
| 29 431 |   |
|        | Seventy-five thousand and ninety-eight.     |

3. Use the information in the table to work out the value of these Roman numerals.

LXXII = \_\_\_\_\_

XIV = \_\_\_\_\_

CCLIX = \_\_\_\_\_

| Roman | Numeral |
|-------|---------|
| I     | 1       |
| V     | 5       |
| X     | 10      |
| L     | 50      |
| C     | 100     |



4. a) What is the largest number that can be made from these digit cards? \_\_\_\_\_

b) What is the smallest number that can be made from these digit cards? \_\_\_\_\_



# Multiplication and Division

1. Fill in the missing numbers in the multiplication square.

| <b>x</b>  | <b>1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> | <b>9</b> | <b>10</b> | <b>11</b> | <b>12</b> |
|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|
| <b>1</b>  | 1        | 2        |          | 4        |          | 6        |          | 8        | 9        |           | 11        | 12        |
| <b>2</b>  | 2        |          | 6        | 8        |          | 12       | 14       |          | 18       | 20        |           | 24        |
| <b>3</b>  | 3        |          |          | 12       | 15       |          | 21       | 24       |          | 30        | 33        |           |
| <b>4</b>  |          | 8        | 12       |          | 20       | 24       |          | 32       | 36       |           | 44        | 48        |
| <b>5</b>  | 5        | 10       |          | 20       | 25       |          | 35       | 40       |          | 50        | 55        |           |
| <b>6</b>  | 6        |          | 18       | 24       | 30       | 36       |          |          | 54       | 60        |           | 72        |
| <b>7</b>  |          | 14       | 21       |          |          | 42       | 49       | 56       |          | 70        | 77        |           |
| <b>8</b>  | 8        | 16       |          | 32       | 40       |          | 56       | 64       | 72       |           | 88        | 96        |
| <b>9</b>  |          | 18       | 27       |          | 45       | 54       | 63       |          | 81       | 90        | 99        | 108       |
| <b>10</b> | 10       |          | 30       | 40       |          | 60       | 70       | 80       | 90       | 100       |           | 120       |
| <b>11</b> |          | 22       | 33       |          | 55       | 66       |          | 88       |          |           | 121       |           |
| <b>12</b> | 12       | 24       |          | 48       | 60       |          | 84       |          | 108      | 120       |           | 144       |

2. Explain the pattern of the 9 times table.

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3. Complete these calculations:

$$250 \times 4 = \underline{\hspace{4cm}}$$

$$555 \times 100 = \underline{\hspace{4cm}}$$

$$2540 \times 0 = \underline{\hspace{4cm}}$$

4. Use your knowledge of multiplication and division methods to solve these problems.

a) A box of glue sticks contains 128 glue sticks. There are 4 classes in the school. How many glue sticks does each class get?

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b) To make a model, each child needs 8 lolly sticks. If lolly sticks come in packs of 30, how many packs would be needed for 28 children to make a model?

---

5. Use formal methods to complete these calculations.

a)  $45 \times 6 =$

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
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b)  $333 \div 9 =$

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

6. If we know that  $12 \times 13 = 156$ , what other calculations do we know? Write them below.

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7. Fill in the missing numbers.

$$\square \times 12 = 132$$

$$125 \div \square = 5$$

$$8 \times \square = 120$$

$$\square \div 7 = 50$$

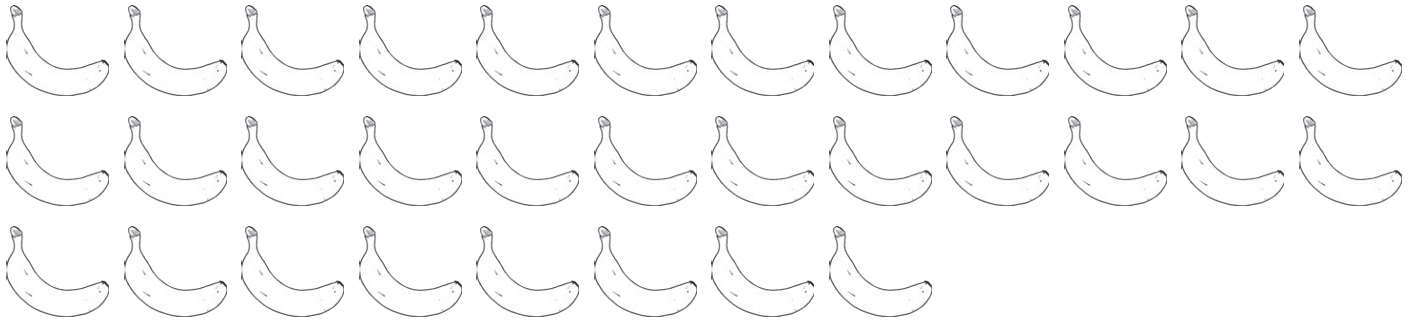
# Fractions

1. Continue the number sequences.

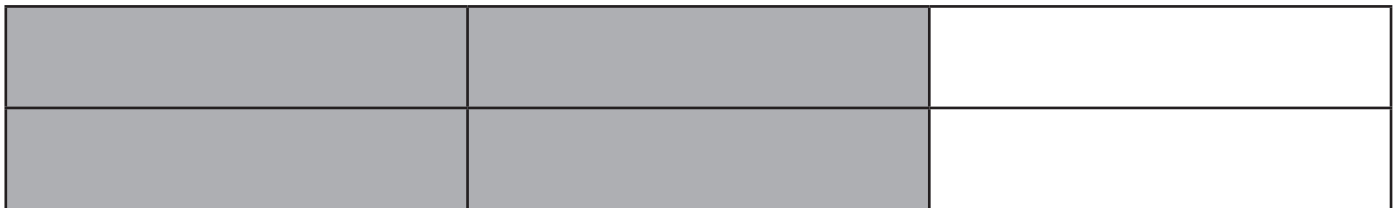
$$\frac{2}{10}, \frac{3}{10}, \frac{4}{10}, \frac{5}{10}, \square, \square, \square, \square, \square$$

$$\frac{56}{100}, \frac{54}{100}, \frac{52}{100}, \frac{50}{100}, \square, \square, \square, \square$$

2. Find  $\frac{6}{8}$  of these bananas.



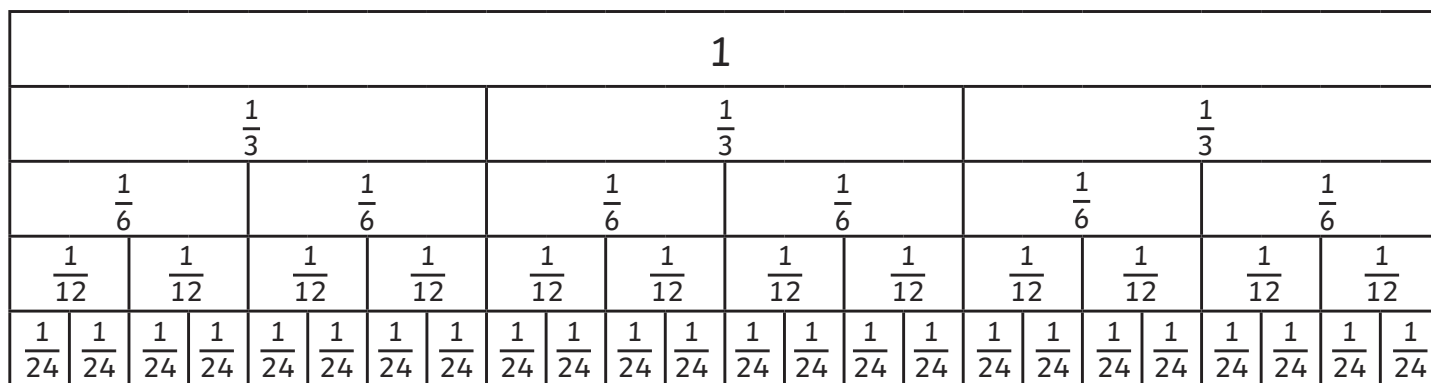
3. a) What fraction of the shape is shaded? \_\_\_\_\_



b) Write 2 equivalent fractions to the amount shaded.

\_\_\_\_\_

4. Use the fraction wall to help you answer these questions.



a) How many sixths are equivalent to  $\frac{2}{3}$  ? \_\_\_\_\_

b) How many twelfths are equivalent to  $\frac{6}{24}$  ? \_\_\_\_\_

c) How many twenty-fourths are equivalent to  $\frac{5}{6}$  ? \_\_\_\_\_

d) Would you rather have  $\frac{7}{12}$  or  $\frac{15}{24}$  of a cake? Why? \_\_\_\_\_

5. Complete these calculations:

$$\frac{1}{10} + \frac{3}{10} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\frac{3}{8} + \frac{4}{8} = \underline{\hspace{2cm}}$$

$$\frac{7}{9} - \frac{2}{9} = \underline{\hspace{2cm}}$$

$$\frac{4}{6} - \frac{1}{6} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

6. Put these fractions in order from smallest to largest.

$\frac{3}{6}$                        $\frac{2}{3}$                        $\frac{1}{10}$                        $\frac{2}{8}$                        $\frac{5}{6}$

**Smallest**

**Largest**



# Fractions and Decimals

1. Match the decimal to its equivalent fraction.

|                 |      |
|-----------------|------|
| $\frac{1}{2}$   | 0.01 |
| $\frac{1}{10}$  | 0.6  |
| $\frac{3}{4}$   | 0.5  |
| $\frac{6}{10}$  | 0.1  |
| $\frac{1}{100}$ | 0.75 |

2. Complete the table. One has been done for you.

|           | $\div 10$ | $\div 100$ |
|-----------|-----------|------------|
| <b>13</b> | 1.3       | 0.13       |
| <b>42</b> |           |            |
| <b>68</b> |           |            |
| <b>3</b>  |           |            |

3. Round these decimals to the nearest **whole** number.

|      |       |
|------|-------|
| 1.2  | _____ |
| 5.6  | _____ |
| 2.21 | _____ |
| 3.5  | _____ |
| 1.55 | _____ |

4. Compare these decimals using  $<$ ,  $>$  or  $=$ .

$0.5 \square 0.05$

$1.02 \square 1.020$

$3.75 \square 3.775$

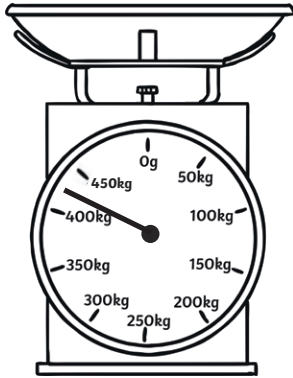
# Measurement

1. a) Measure this line using a ruler. Write its length in cm and in mm.

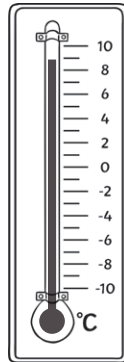
\_\_\_\_\_ = \_\_\_\_\_

b) Use a ruler to draw a line that measures 53mm.

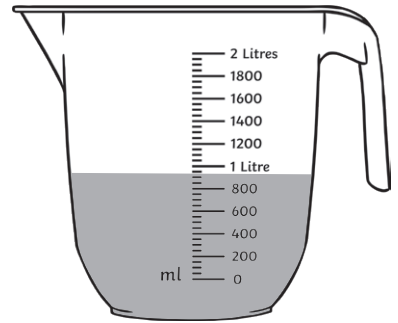
2. Write the amount shown on each scale.



\_\_\_\_\_ kg



\_\_\_\_\_ °C



\_\_\_\_\_ ml

3. Convert these units.

a) 1500g = \_\_\_\_\_ kg

d) 12.5cm = \_\_\_\_\_ mm

b) 2450g = \_\_\_\_\_ kg

e) 1.2km = \_\_\_\_\_ m

c) 1.75m = \_\_\_\_\_ cm

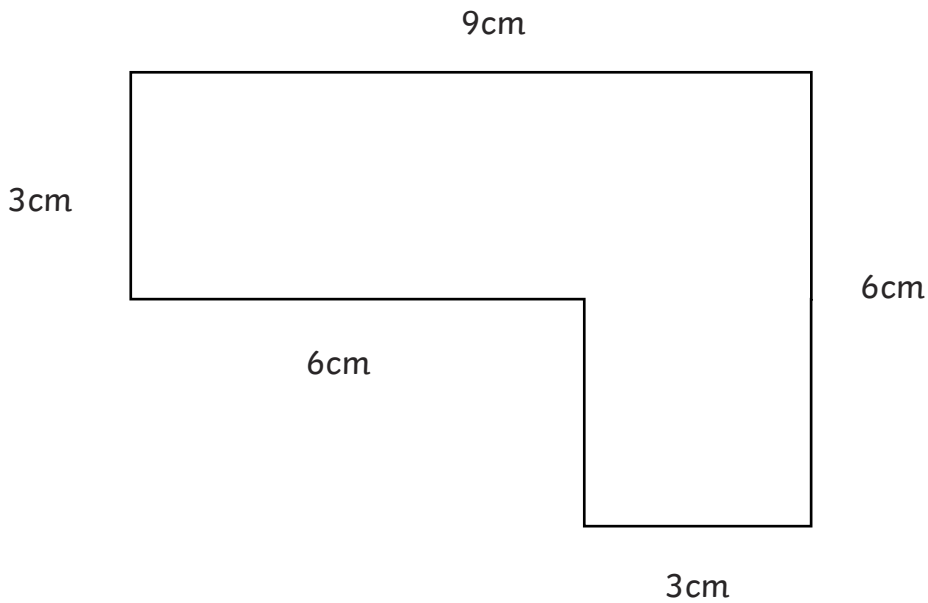
f) 2300ml = \_\_\_\_\_ l

4. Anna says five 750ml bottles will hold more than three 1l bottles. Is she right? Explain how you know.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

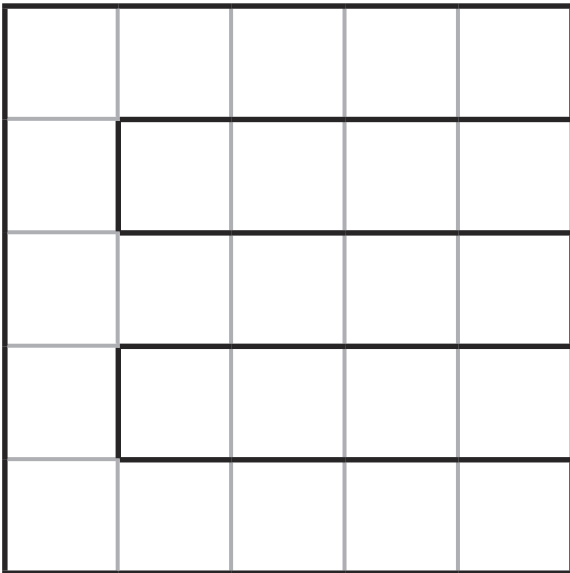
# Area and Perimeter

1. Calculate the perimeter of this shape.



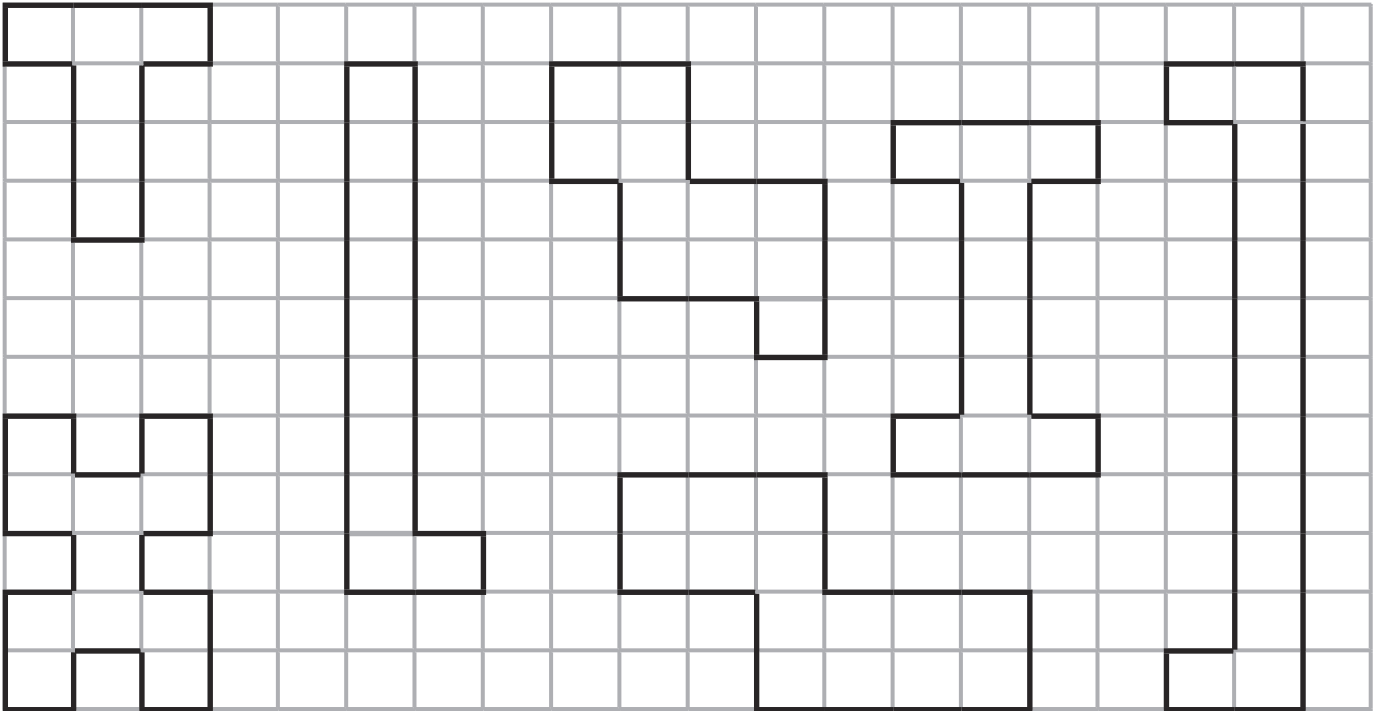
Perimeter = \_\_\_\_\_ cm

2. What is the area of this shape?



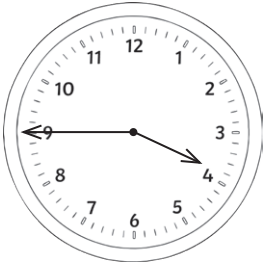
Area = \_\_\_\_\_  $\text{cm}^2$

3. Which of these shapes has the largest area? Circle the shape below.

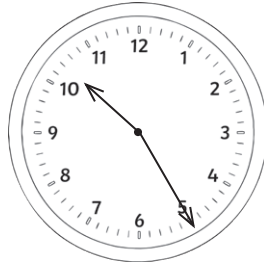


# Time

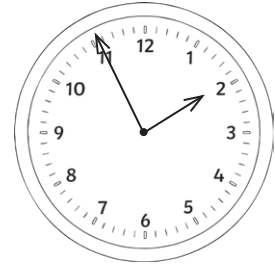
1. Write the time these clocks show.



\_\_\_\_\_

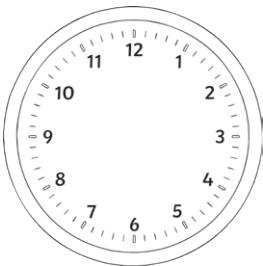


\_\_\_\_\_

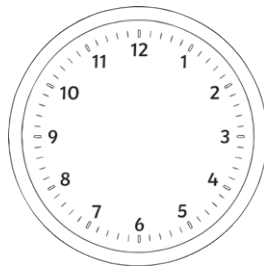


\_\_\_\_\_

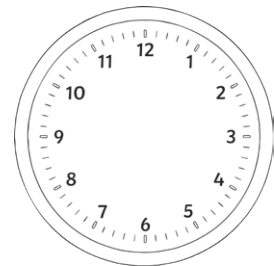
2. Draw the hands to show the given time on each clock.



1:15 or quarter past 1



4:50 or ten to 5



7:45 or quarter to 8

3. A film lasts for 165 minutes. How long is the film in minutes and hours?

\_\_\_\_\_

4. Complete the sentences.

There are \_\_\_\_\_ seconds in 1 minute.

There are \_\_\_\_\_ minutes in 1 hour.

There are \_\_\_\_\_ hours in 1 day.

There are \_\_\_\_\_ days in 1 week.

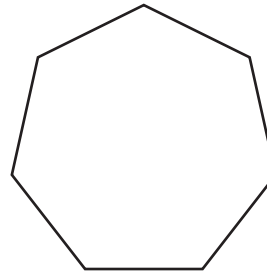
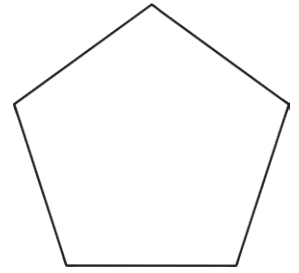
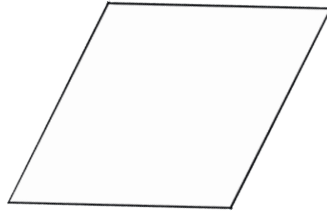
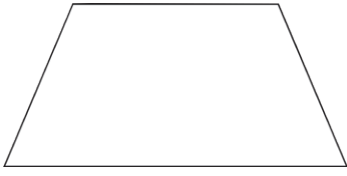
There are \_\_\_\_\_ days in 1 year.

There are \_\_\_\_\_ months in 1 year.

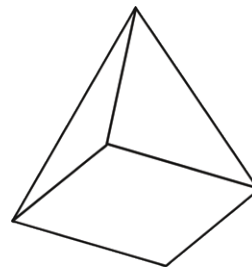
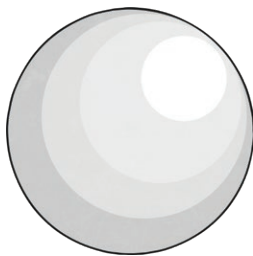
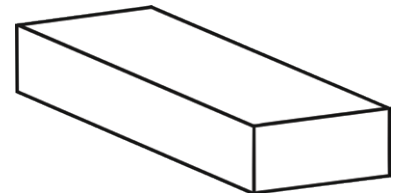
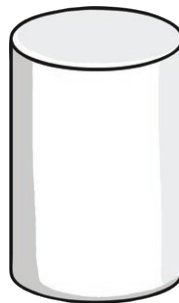
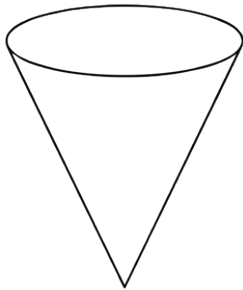
5. How many days are in June? \_\_\_\_\_

# Shape

1. Name these 2D shapes.

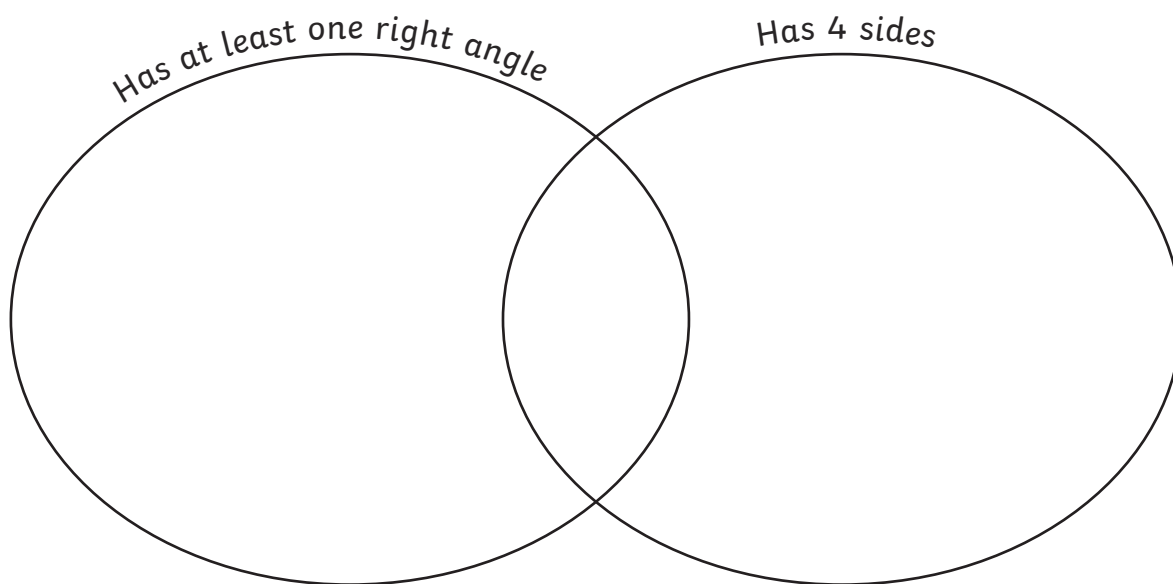


2. Name these 3D shapes.



3. Draw the following shapes in the correct places on the Venn diagram.

- square
- right angled triangle
- pentagon
- parallelogram



4. Match the type of triangle to its definition.

Equilateral

One angle is a right angle

Isosceles

All sides and angles are equal

Scalene

2 sides and angles are equal

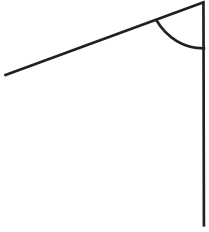
Right-angled triangle

No sides or angles are equal

# Angles

1. Order these angles from smallest to largest.

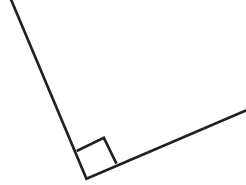
A



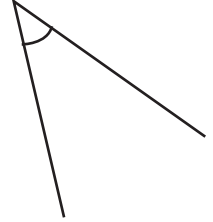
B



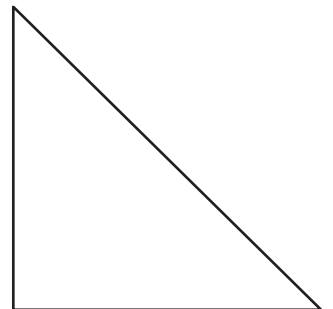
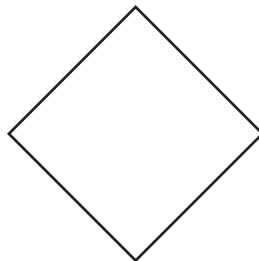
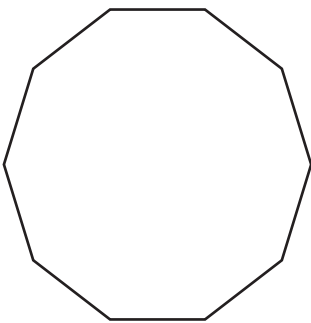
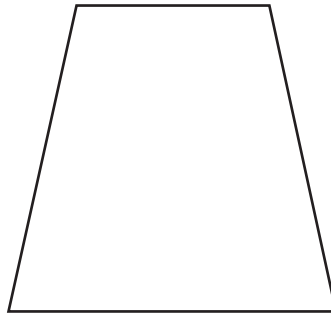
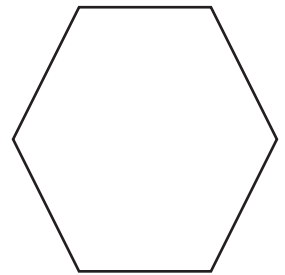
C



D



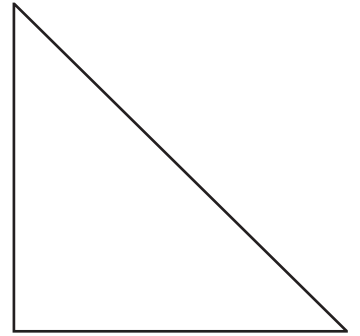
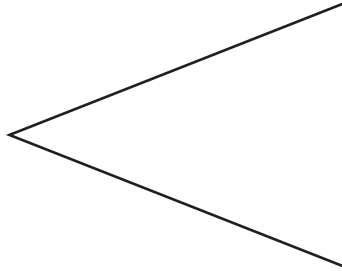
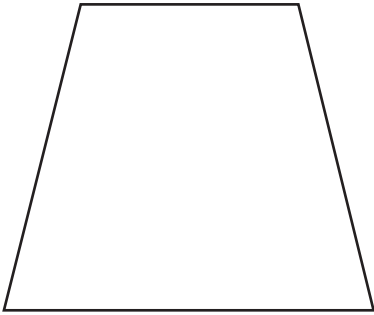
2. Tick all the shapes that have **obtuse** angles.



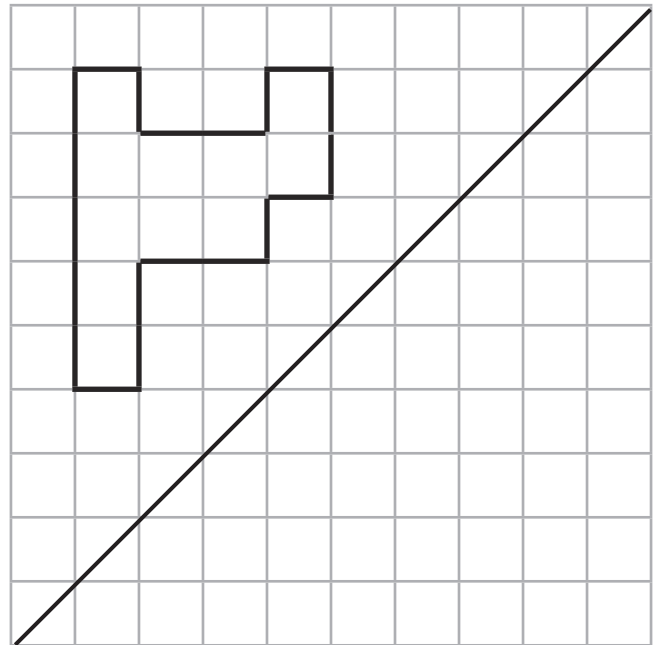
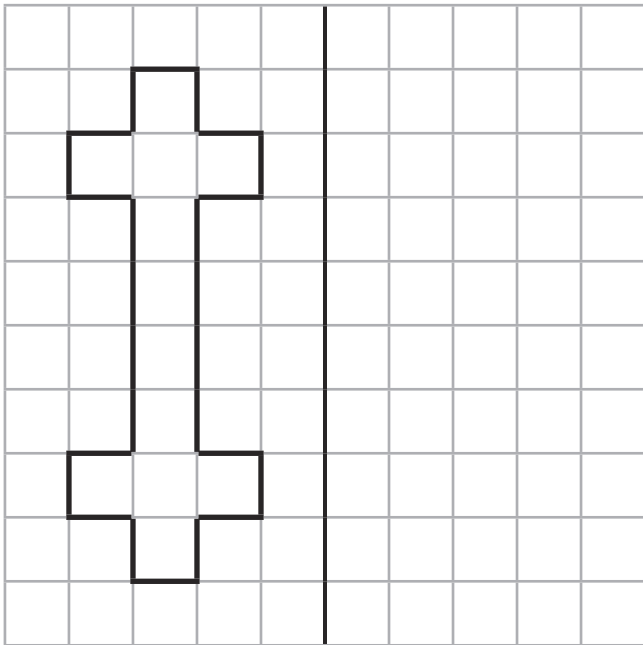


# Symmetry

1. Draw a line of symmetry on these shapes.

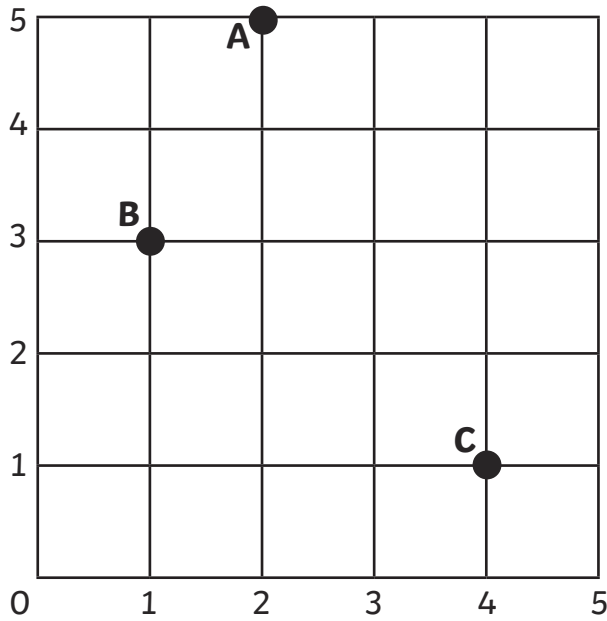


2. Reflect the shapes in the mirror line.



# Position and Direction

1. Write the coordinates for the points marked on the grid.

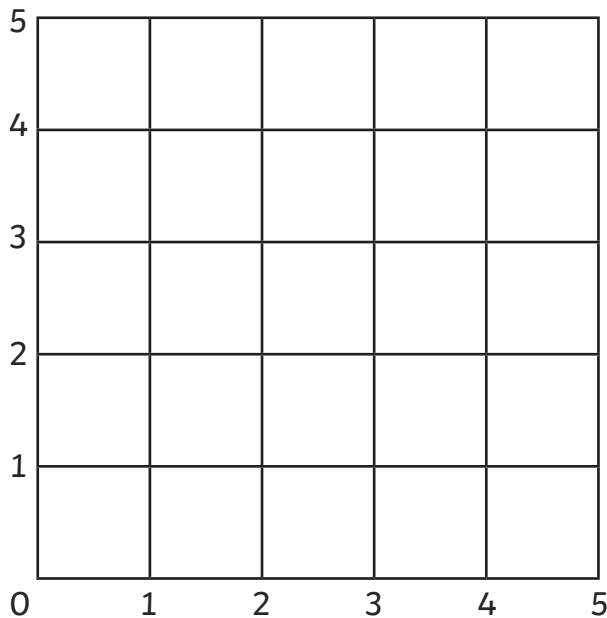


A \_\_\_\_\_

B \_\_\_\_\_

C \_\_\_\_\_

2. Plot these coordinates on the grid. What shape is made?



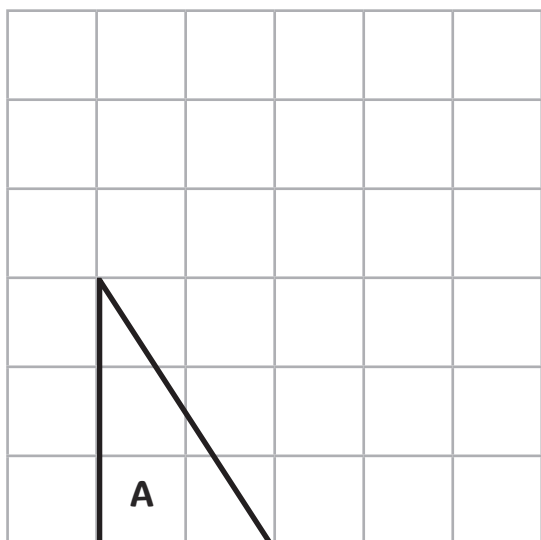
(0, 2)

(1, 4)

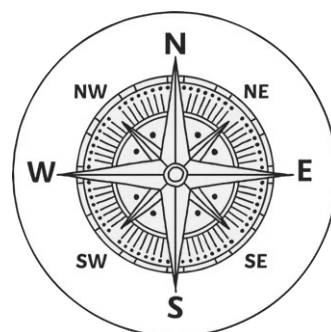
(4, 2)

(5, 4)

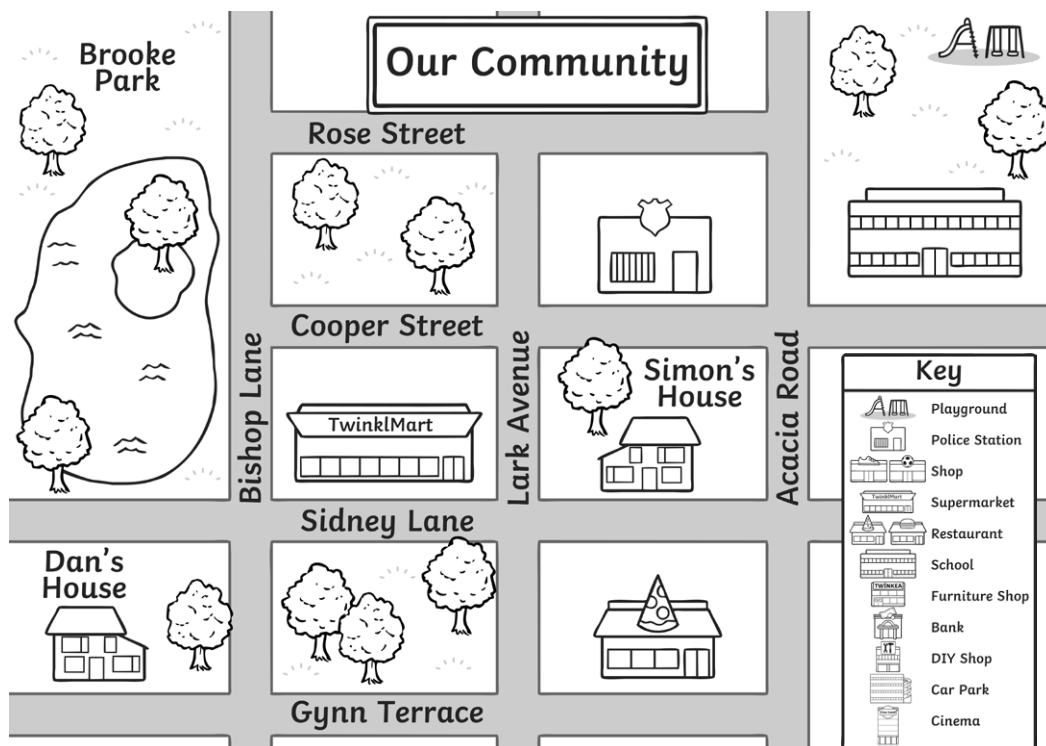
3. Translate this triangle 2 squares to the right and 3 squares up. Label this new triangle B.



4. Amy is walking north east. She turns quarter of a turn anticlockwise. What direction is she walking now?



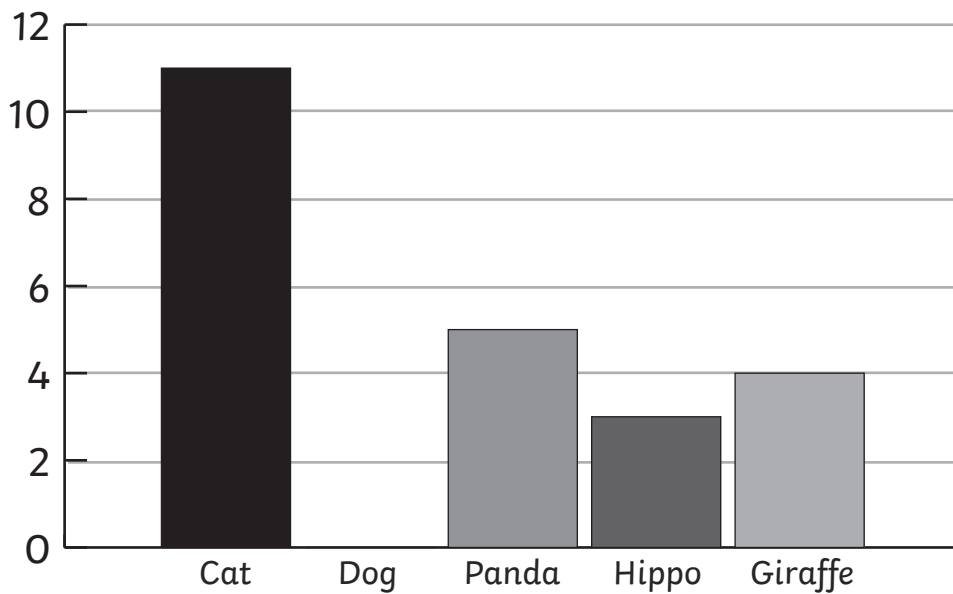
5. Simon left his house and turned right. He made a right turn at the next junction and right at the junction after. Where is Simon?



# Statistics

1. A class were asked to choose their favourite animals. These were the results:

| Animal  | Tally |
|---------|-------|
| Cat     |       |
| Dog     | /     |
| Panda   |       |
|         |       |
| Giraffe |       |



a) Use the information in the bar chart to complete the information in the table.

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b) Add the information for 'Dog' to the bar chart.

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c) Which was the most popular animal?

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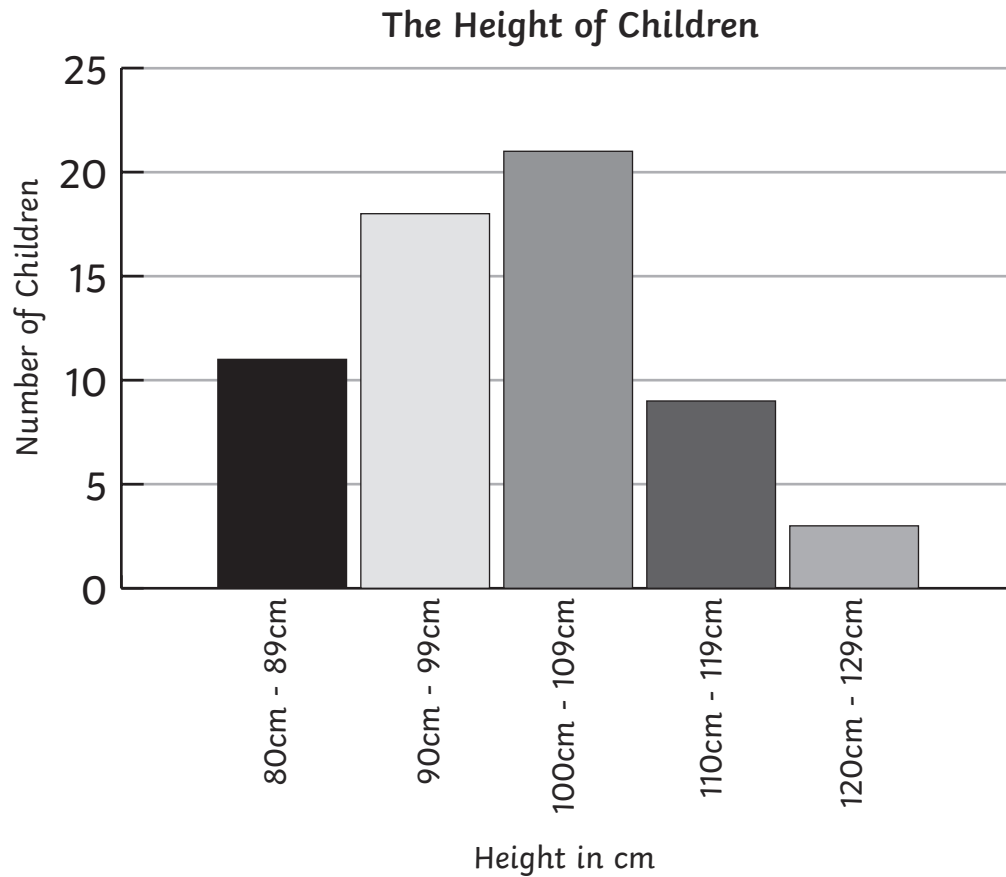
d) Which animal was half as popular as a dog?

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e) How many children were asked in total?

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2. A school measured the heights of all children. The results are shown in the graph below.



a) Which height was the least common in the school?

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b) How many children measured less than 1m?

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c) 3 more children joined the school who measure between 110cm – 119cm. Add this information to the graph.

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d) After these children joined, how many children were measured in total?

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