

Multiply a 2-digit number by a single digit.

$$1) \begin{array}{r} 3\ 7 \\ \times\ 5 \\ \hline \end{array}$$

$$2) \begin{array}{r} 7\ 2 \\ \times\ 6 \\ \hline \end{array}$$

$$3) \begin{array}{r} 3\ 9 \\ \times\ 7 \\ \hline \end{array}$$

$$4) \begin{array}{r} 1\ 8 \\ \times\ 9 \\ \hline \end{array}$$

$$5) \begin{array}{r} 8\ 7 \\ \times\ 4 \\ \hline \end{array}$$

$$6) \begin{array}{r} 4\ 3 \\ \times\ 9 \\ \hline \end{array}$$

$$7) \begin{array}{r} 5\ 9 \\ \times\ 8 \\ \hline \end{array}$$

$$8) \begin{array}{r} 6\ 7 \\ \times\ 6 \\ \hline \end{array}$$

$$9) \begin{array}{r} 3\ 8 \\ \times\ 6 \\ \hline \end{array}$$

$$10) \begin{array}{r} 7\ 3 \\ \times\ 7 \\ \hline \end{array}$$

$$11) \begin{array}{r} 8\ 2 \\ \times\ 9 \\ \hline \end{array}$$

$$12) \begin{array}{r} 4\ 9 \\ \times\ 8 \\ \hline \end{array}$$

$$13) \begin{array}{r} 5\ 8 \\ \times\ 8 \\ \hline \end{array}$$

$$14) \begin{array}{r} 9\ 6 \\ \times\ 3 \\ \hline \end{array}$$

$$15) \begin{array}{r} 6\ 8 \\ \times\ 9 \\ \hline \end{array}$$

$$16) \begin{array}{r} 9\ 4 \\ \times\ 7 \\ \hline \end{array}$$

$$17) \begin{array}{r} 6\ 7 \\ \times\ 3 \\ \hline \end{array}$$

$$18) \begin{array}{r} 7\ 8 \\ \times\ 6 \\ \hline \end{array}$$

$$19) \begin{array}{r} 9\ 5 \\ \times\ 8 \\ \hline \end{array}$$

$$20) \begin{array}{r} 5\ 6 \\ \times\ 9 \\ \hline \end{array}$$

Divide these 2 digit numbers by a single digit.

$$1) \ 6 \overline{)2 \ 7}$$

$$2) \ 5 \overline{)3 \ 9}$$

$$3) \ 7 \overline{)3 \ 2}$$

$$4) \ 8 \overline{)5 \ 0}$$

$$5) \ 4 \overline{)2 \ 6}$$

$$6) \ 7 \overline{)3 \ 4}$$

$$7) \ 9 \overline{)3 \ 3}$$

$$8) \ 3 \overline{)2 \ 8}$$

$$9) \ 8 \overline{)2 \ 5}$$

$$10) \ 7 \overline{)5 \ 0}$$

$$11) \ 6 \overline{)3 \ 5}$$

$$12) \ 8 \overline{)4 \ 0}$$

We can do the same thing with halving
.half 464 is ..

Half of 400 add half of 60 add half of 4
 $200+30+2 = 232$



Work out the answers to these questions.

1. Half of 28 = half of 20 + half of 8 = $10 + 4 = \underline{\hspace{2cm}}$
2. Half of 46 = half of 40 + half of 6 = $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
3. Half of 34 = half of + half of = $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
4. Half of 88 = half of + half of = $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
5. Half of 62 = half of + half of = $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
6. Half of 56 = half of + half of = $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
7. Half of 44 = half of + half of = $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
8. Half of 78 = half of + half of = $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
9. Half of 86 = half of + half of = $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
10. Half of 92 = half of + half of = $\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

A) Work out these multiplications.

1) $7 \times 10 =$ _____

2) $2 \times 10 =$ _____

3) $10 \times 8 =$ _____

4) $12 \times 10 =$ _____

5) $10 \times 15 =$ _____

6) $18 \times 10 =$ _____

7) $10 \times 16 =$ _____

8) $22 \times 10 =$ _____

9) $10 \times 21 =$ _____

10) $32 \times 10 =$ _____

11) $10 \times 30 =$ _____

12) $28 \times 10 =$ _____

13) $10 \times 43 =$ _____

14) $54 \times 10 =$ _____

15) $10 \times 37 =$ _____

16) $80 \times 10 =$ _____

17) $10 \times 47 =$ _____

18) $59 \times 10 =$ _____

19) $10 \times 78 =$ _____

20) $65 \times 10 =$ _____

21) $10 \times 84 =$ _____

22) $96 \times 10 =$ _____

23) $10 \times 59 =$ _____

24) $48 \times 10 =$ _____

B) Make each of these numbers ten times bigger.

1) $14 \rightarrow$ _____

2) $26 \rightarrow$ _____

3) $31 \rightarrow$ _____

4) $40 \rightarrow$ _____

5) $19 \rightarrow$ _____

6) $55 \rightarrow$ _____

7) $73 \rightarrow$ _____

8) $69 \rightarrow$ _____

9) $94 \rightarrow$ _____

10) $51 \rightarrow$ _____

11) $86 \rightarrow$ _____

12) $49 \rightarrow$ _____

C) Fill in the missing numbers

1) $13 \times \underline{\quad} = 130$

2) $\underline{\quad} \times 10 = 180$

3) $10 \times \underline{\quad} = 150$

4) $\underline{\quad} \times 19 = 190$

5) $25 \times 10 = \underline{\quad}$

6) $\underline{\quad} \times 42 = 420$

7) $10 \times \underline{\quad} = 360$

8) $\underline{\quad} \times 10 = 550$

9) $10 \times \underline{\quad} = 300$

10) $\underline{\quad} \times 28 = 280$

11) $10 \times \underline{\quad} = 740$

12) $\underline{\quad} \times 10 = 390$



1) At the zoo, the ratio of elephants to hippos is 1:2. So for every elephant, there are 2 hippos.

a) If there were 3 elephants at the zoo, how many hippos would there be? _____

b) If there were 10 hippos, how many elephants? _____

2) At the zoo, the ratio of monkeys to gorillas is 5:1. 

a) If there were 20 monkeys, how many gorillas would there be? _____

b) If there were 7 gorillas, how many monkeys? _____

3) At the zoo, the ratio of dolphins to penguins is 2:5. So for every 2 dolphins, there are 5 penguins.

a) If the zoo had 6 dolphins, how many penguins would there be? _____

b) If the zoo had 30 penguins, how many dolphins would it have? _____

c) If the zoo had 10 dolphins, how many penguins would it have? _____

4) The ratio of snakes to lizards in the zoo is 3:2. 

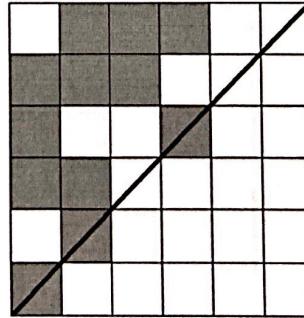
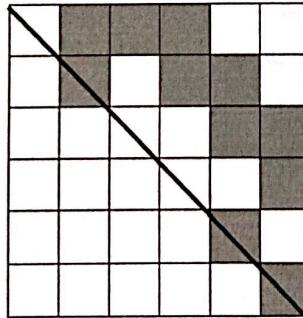
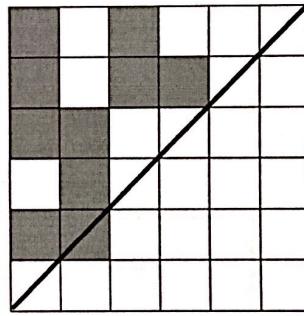
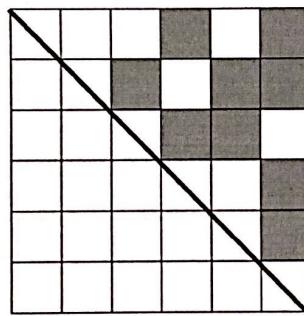
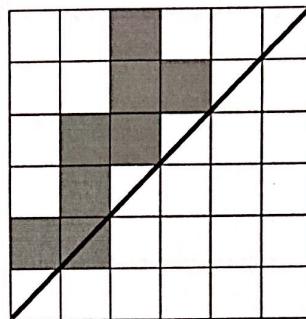
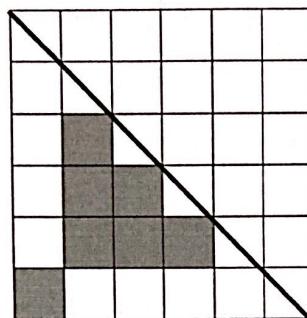
a) If there were 10 lizards, how many snakes would there be? _____

b) If there were 9 snakes, how many lizards? _____

c) If the number of snakes in the zoo increased by 6. How many more lizards would the zoo need to get to keep the same ratio? _____

d) If the total number of snakes and lizards at the zoo was 20, how many snakes and how many lizards would there be? _____ snakes, _____ lizards.

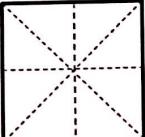
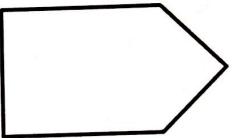
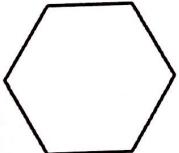
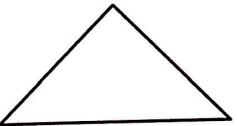
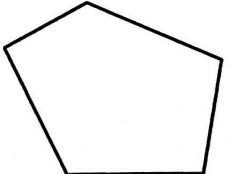
Use the diagonal lines of symmetry to complete the missing patterns.



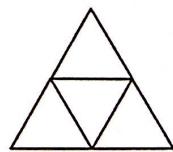
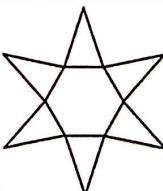
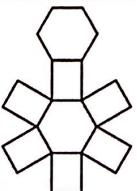
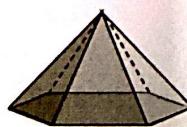
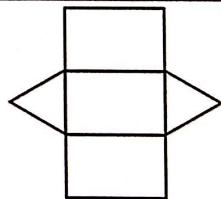
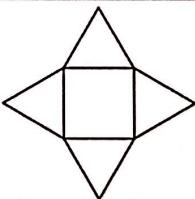
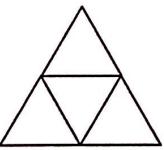
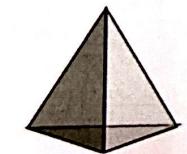
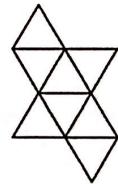
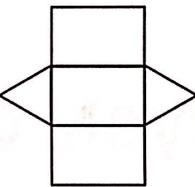
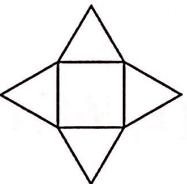
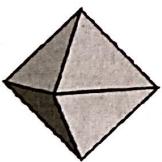
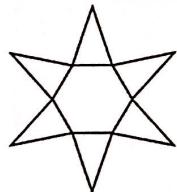
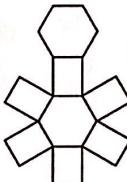
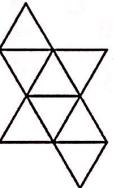
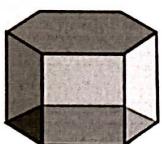
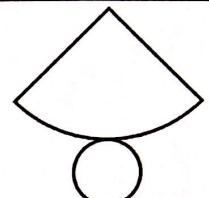
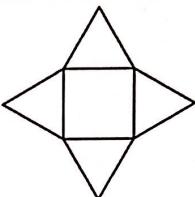
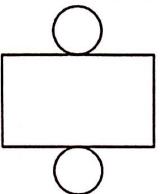
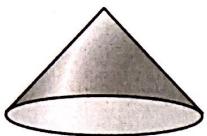
For each of the shapes below,

- draw the lines of symmetry in each shape;
- name each shape.

The first one has been done for you.

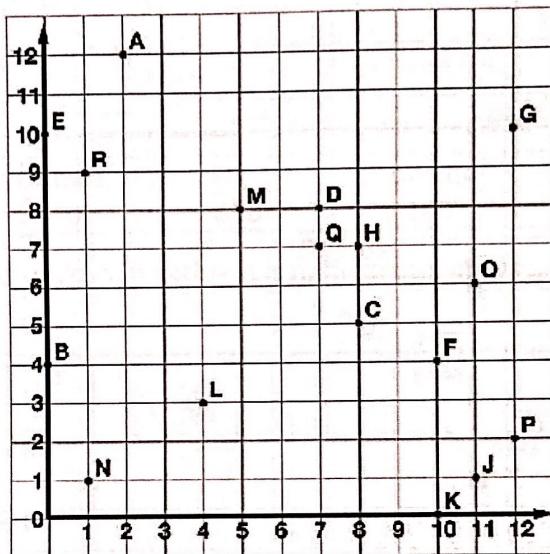
		
Sides: 4 Lines of symmetry: 4 Name of shape square	Sides: Lines of symmetry: Name of shape	Sides: Lines of symmetry: Name of shape
		
Sides: Lines of symmetry: Name of shape	Sides: Lines of symmetry: Name of shape	Sides: Lines of symmetry: Name of shape

For each 3d shape, shade the correct net.



Name: _____

Ordered Pairs



Tell what point is located at each ordered pair.

1. (5,8) _____ 2. (12,2) _____ 3. (8,7) _____
4. (12,10) _____ 5. (7,7) _____ 6. (0,10) _____

Write the ordered pair for each given point.

7. N _____ 8. L _____ 9. J _____
10. A _____ 11. B _____ 12. E _____

Plot the following points on the coordinate grid.

13. S (6,11) 14. T (3,5) 15. U (9,12)



$$1\text{km} = 1000\text{m}$$

$$1\text{m} = 100\text{cm}$$

$$1\text{cm} = 10\text{ mm}$$

- | | | | |
|-----|--|-----|--|
| 1) | $1\text{cm} = \underline{\hspace{2cm}}$ mm | 2) | $2\text{cm} = \underline{\hspace{2cm}}$ mm |
| 3) | $3\text{cm} = \underline{\hspace{2cm}}$ mm | 4) | $4\text{cm} = \underline{\hspace{2cm}}$ mm |
| 5) | $1\text{m} = \underline{\hspace{2cm}}$ cm | 6) | $2\text{m} = \underline{\hspace{2cm}}$ cm |
| 7) | $3\text{m} = \underline{\hspace{2cm}}$ cm | 8) | $4\text{m} = \underline{\hspace{2cm}}$ m |
| 9) | $1\text{km} = \underline{\hspace{2cm}}$ m | 10) | $2\text{km} = \underline{\hspace{2cm}}$ m |
| 11) | $3\text{km} = \underline{\hspace{2cm}}$ m | 12) | $4\text{km} = \underline{\hspace{2cm}}$ m |

Which is the most? Circle the largest amount in each box.

1 m	10 m	100 m	1 m
1 km	100 cm	500 cm	200 cm
1 cm	200 mm	1 km	300 mm

Use greater than (>), less than (<) or equals (=) to compare the amounts.

- | | | | | | | | |
|----|-------|---|-------|-----|--------|---|--------|
| 1) | 1 m | > | 10 cm | 2) | 1 km | < | 1000 m |
| 3) | 20 mm | < | 1 cm | 4) | 80 cm | < | 1 m |
| 5) | 200 m | < | 1 km | 6) | 3cm | < | 40 mm |
| 7) | 10 mm | < | 1 cm | 8) | 2 km | < | 3000 m |
| 9) | 3 m | < | 40 cm | 10) | 500 cm | < | 3 m |

Use your knowledge of the number system to read these scales which are going up ones, fives and tens. Remember to include the units of measurement.

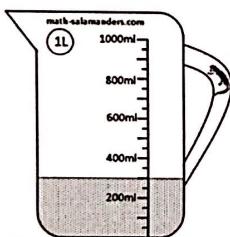
1) How long? _____



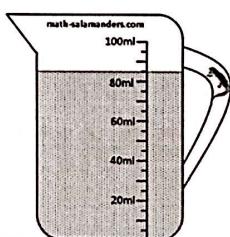
2) How long? _____



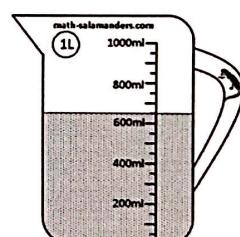
3) How much? _____



4) How much? _____



5) How much? _____



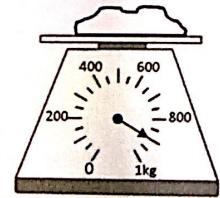
6) How long? _____



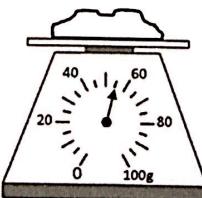
7) How long? _____



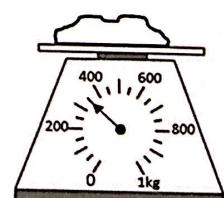
8) How heavy? _____



9) How heavy? _____



10) How heavy? _____

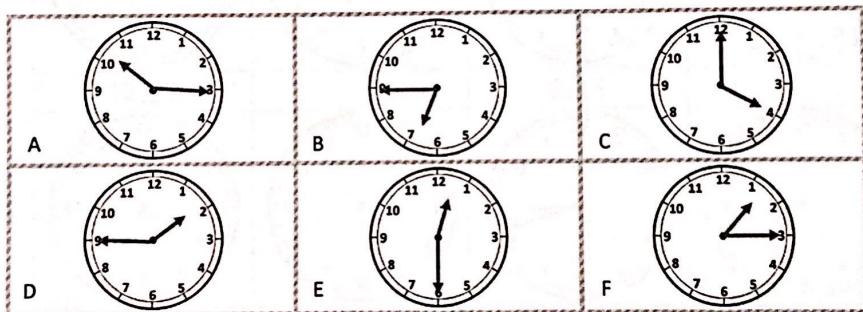


Use the clues to find the correct clock from the 6 possibilities.

CHALLENGE 1

- I am between 1 o'clock and 4 o'clock.
- I am not a half-past time.
- I am closer to 2 o'clock than 1 o'clock.

What time am I? _____

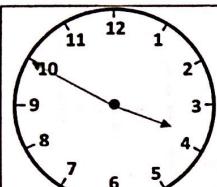


CHALLENGE 2

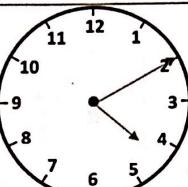
- I am not an o'clock time.
- My time is between 12 o'clock and 2 o'clock.
- I am not a quarter-past time.
- My time is half-way between 12 o'clock and one o'clock.

What time am I? _____

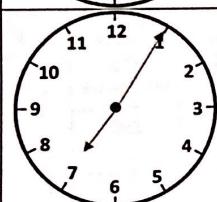
Work out the elapsed time between the times on the two clocks.



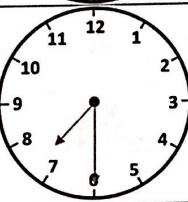
TO



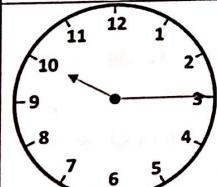
_____ minutes



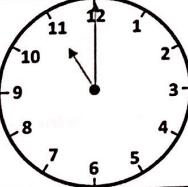
TO



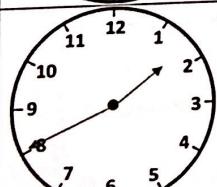
_____ minutes



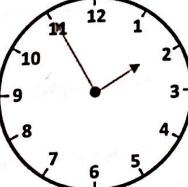
TO



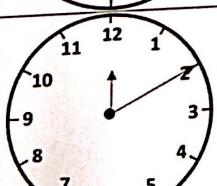
_____ minutes



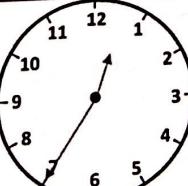
TO



_____ minutes



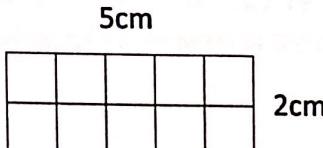
TO



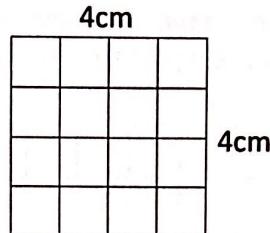
_____ minutes

Work out the perimeter of the following rectangles:

1)



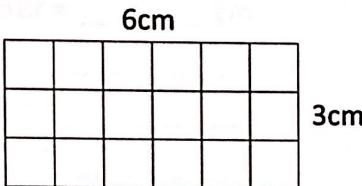
2)



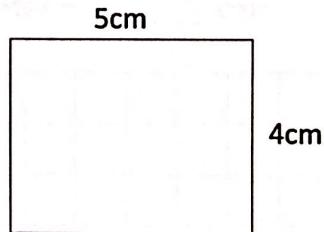
Perimeter = _____ cm

Perimeter = _____ cm

3)



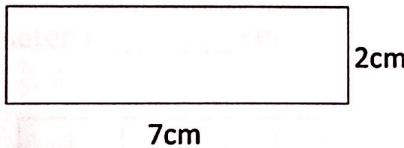
4)



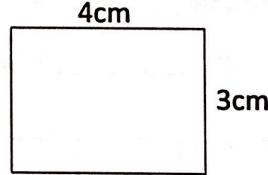
Perimeter = _____ cm

Perimeter = _____ cm

5)



6)



Perimeter = _____ cm

Perimeter = _____ cm

Handy Hint: The formula for the perimeter of a rectangle is:

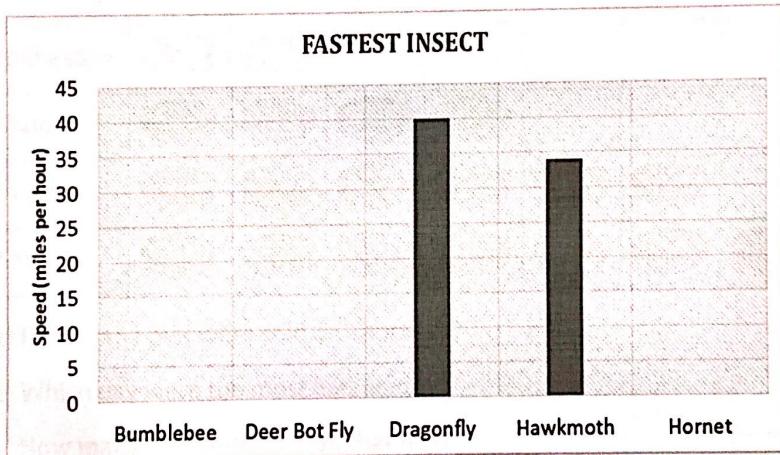
$$2 \times (\text{length} + \text{width})$$



Here are the speeds of some of the fastest flying insects.

Insect	Speed miles per hour (mph)
Bumblebee	18
Deer Bot Fly	27
Dragonfly	40
Hawkmoth	
Hornet	21

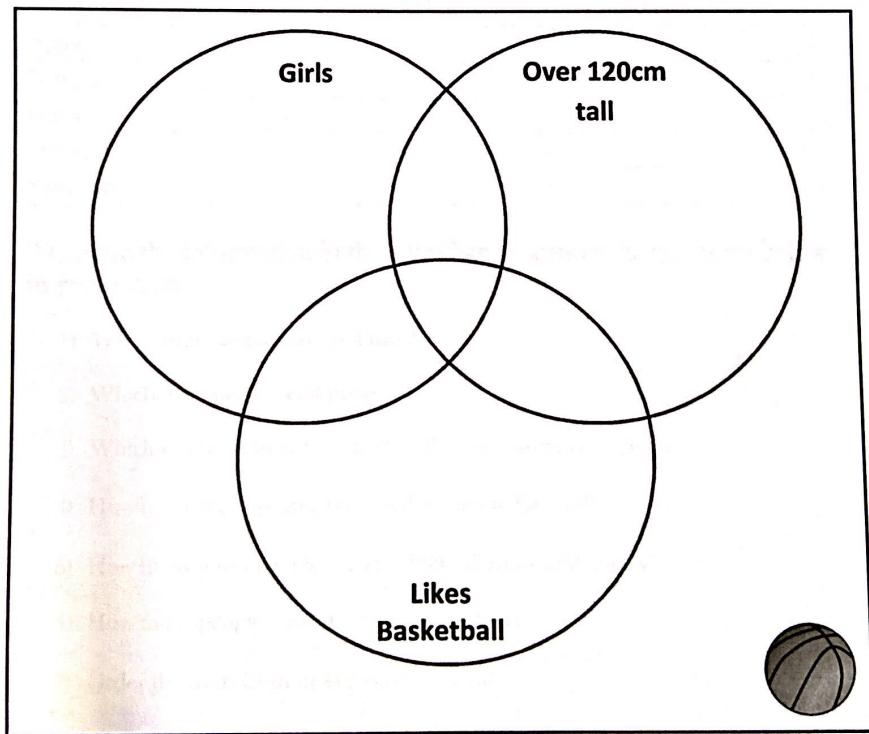
- 1) Use the data to fill in the missing bars on the graph below



- 2) Estimate how fast a hawkmoth can fly. Fill in the missing data in the table.
3) A dragonfly can fly twice as fast as a hornet. True or false? _____
4) A cheetah can run at 64 miles per hour. How much faster than a dragonfly is this? _____ miles per hour
5) How much faster is the deer bot fly than the bumblebee? _____ miles per hour

Put these people in the correct places in these Venn diagrams.

	Ben	Ayesha	Kate	Max	Kyle	Holly
Boy/Girl	boy	girl	girl	boy	boy	girl
Age	7	9	8	6	8	8
Height (cm)	116	132	135	114	121	122
Likes basketball	no	yes	no	yes	yes	no



Favorite Fruit



Shoppers in the supermarket were asked in a survey which was their favorite fruit. Here is a list of their responses.

Banana	Apple	Banana	Banana	Grape	Orange
Apple	Apple	Strawberry	Orange	Apple	Banana
Orange	Orange	Strawberry	Banana	Grape	Apple
Apple	Apple	Orange	Strawberry	Strawberry	Apple

Copy this Tally Chart into your jotter and use the list above to complete it.

FRUIT	TALLY	TOTAL
Apple		
Banana		
Grape		
Orange		
Strawberry		

Then use the information in the tally chart to answer the questions below in your jotters.

- 1) Which fruit was the most popular?
- 2) Which fruit was the least popular?
- 3) Which two fruits were preferred by the same number of people?
- 4) How many more people preferred Apples to Grapes?
- 5) How many fewer people preferred Strawberries to Bananas?
- 6) How many people were surveyed all together?
- 7) Order the fruits from most popular to least