



Revision Booklet

Functional Skills Entry 3 November-December

QUESTIONS TO GO WITH YOUR
LESSONS

Name:

Vocational Course:

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Adding & Subtracting

1) Work out the following

a) $687 + 961$ b) $907 + 448$ c) $969 + 758$ d) $402 + 38$

e) $311 - 298$ f) $905 - 768$ g) $901 - 109$ h) $717 - 171$

2) Abdul has his car serviced. He also buys a new windscreen.

The service costs £285

Windscreen costs £69

What is the total cost of the service and the windscreen ? (2)

Adding and Subtracting

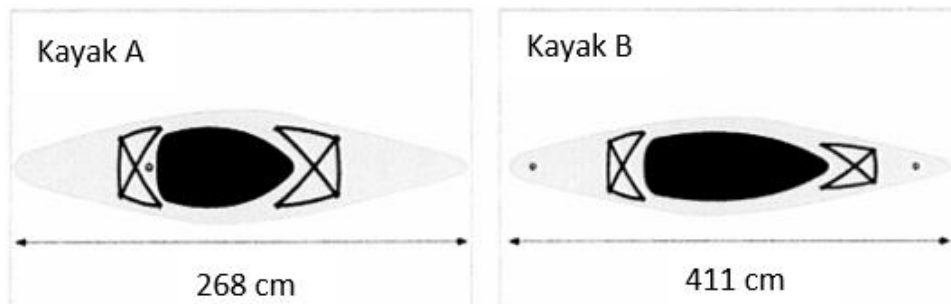
3) There are 66 people staying in the Hotel on Holiday.

47 people decide to go on the day trip to Brighton

How many people do not go on the trip?

(2)

4) How much longer is Kayak B than Kayak A ?



Multiplying & Dividing

1) Work out the remainder for each of the following divisions.

a) $326 \div 7$

b) $776 \div 3$

c) $356 \div 6$

d) $232 \div 8$

e) $400 \div 12$

f) $452 \div 15$

g) $377 \div 16$

h) $283 \div 11$

2) At a wedding there are 125 guests.

8 people can sit at each table.

All the tables are filled, except one.

How many guests sit at the table that is not filled?

Multiplying & Dividing

3) Complete the sums below

$$\begin{array}{r} 263 \\ \times 25 \\ \hline \end{array}$$

$$\begin{array}{r} 531 \\ \times 35 \\ \hline \end{array}$$

$$\begin{array}{r} 688 \\ \times 61 \\ \hline \end{array}$$

$$\begin{array}{r} 531 \\ \times 83 \\ \hline \end{array}$$

$$\begin{array}{r} 743 \\ \times 86 \\ \hline \end{array}$$

$$\begin{array}{r} 684 \\ \times 76 \\ \hline \end{array}$$

$$\begin{array}{r} 457 \\ \times 44 \\ \hline \end{array}$$

$$\begin{array}{r} 252 \\ \times 76 \\ \hline \end{array}$$

Multiplying & Dividing

4) Complete these division sums

$$3 \overline{) 48}$$

$$5 \overline{) 2685}$$

$$8 \overline{) 648}$$

$$6 \overline{) 589}$$

$$7 \overline{) 605}$$

$$6 \overline{) 586}$$

$$2 \overline{) 199}$$


$$9 \overline{) 603}$$

Multiplying & Dividing

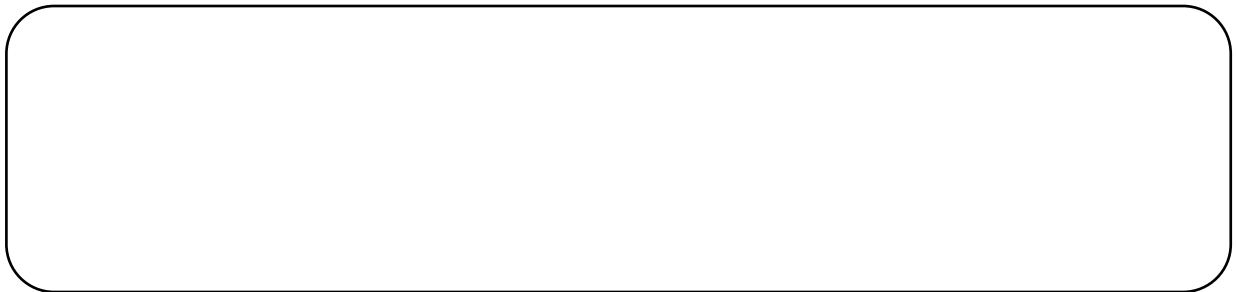
5) Work out 45×619



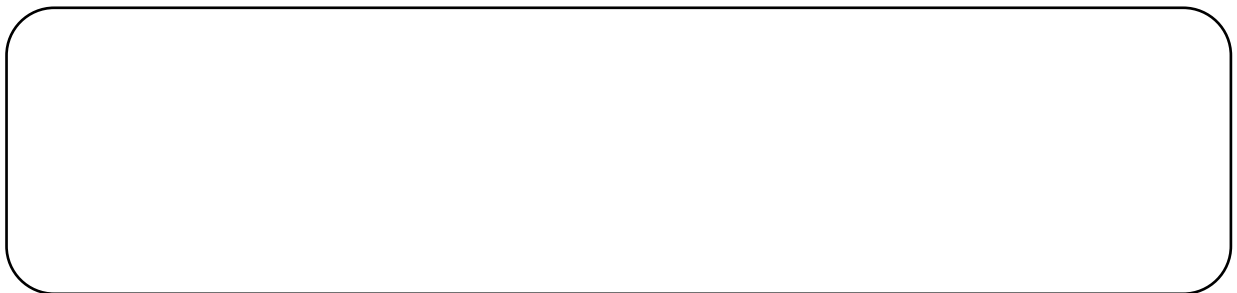
6) Work out 52×317



7) Work out 24×760



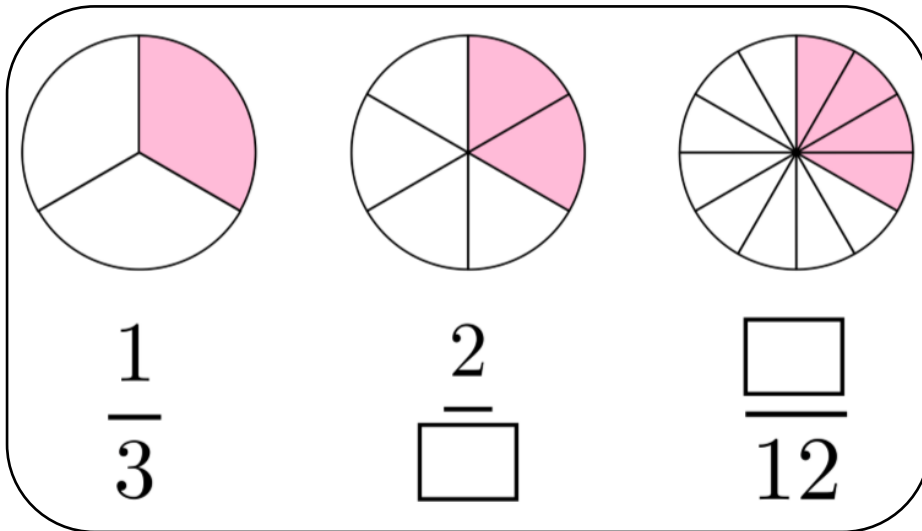
8) Work out 38×185



Fractions

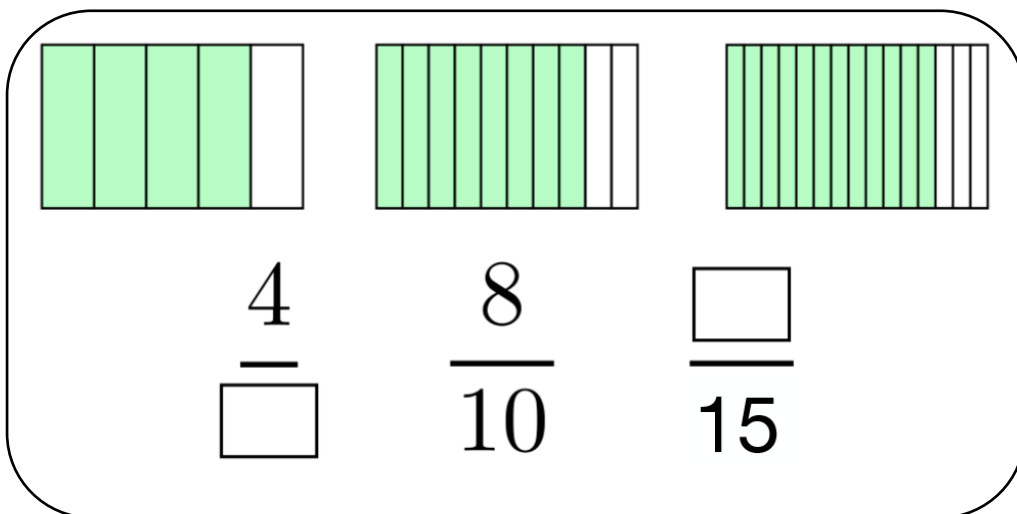
1) These diagrams show three equivalent fractions.

Write in the missing numbers.



2) These diagrams show three equivalent fractions.

Write in the missing numbers.



Fractions

3) Find the missing number.

$$\frac{2}{3} = \frac{\square}{6}$$

4) Find the missing number.

$$\frac{1}{5} = \frac{\square}{20}$$

5) Find the missing number.

$$\frac{5}{7} = \frac{10}{\square}$$

6) Find the missing number.

$$\frac{\square}{5} = \frac{15}{25}$$

Fractions

7) Find the missing number.

$$\frac{4}{\square} = \frac{12}{21}$$

8) Find the missing number.

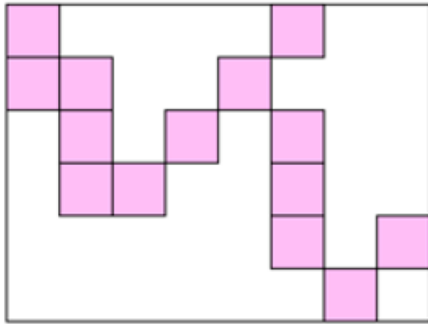
$$\frac{3}{8} = \frac{9}{\square}$$

9) Write down 3 different fractions that are equivalent to $\frac{3}{5}$.

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

Fractions

10) Here is a rectangle with 14 identical squares shaded inside it.



What fraction of the rectangle is shaded? Simplify your answer.

11) Work out $\frac{1}{4}$ of 24.

12) Work out $\frac{1}{3}$ of 18.

13) Work out $\frac{1}{5}$ of 60.

Estimating & Rounding

1) Ryan rents a hotel room.

There are 237 rooms in the hotel, 168 are booked out. How many are left?

Show your working and write your answer in the box below.

2)

(a) Round 168 to the nearest 10.

Write your answer in the box below.

(b) Use your rounded answer to check the answer to question 1.

Write your answer in the box below.

3) Claire buys a coffee in the local Café. It costs £1.85.

Round £1.85 to the nearest whole pound

Write your answer in the box below.

Estimating & Rounding

4) Omar goes to the cinema. It costs him £12.76

Round £12.76 to the nearest 10 pence

Write your answer in the box below.

5) Josh goes to the gym 24 times in one month. It costs him £14 each time.

How much does it cost in total?

Show your working and write your answer in the box below.

6) Round 24 to the nearest 10.

Write your answer in the box below.

7) Use your rounded answer to check the answer to question 5.

Write your answer in the box below.

8) On Tuesday Josh is in the gym for 175 minutes.

Round 175 to the nearest 100.

Write your answer in the box below.

(1)

Estimating & Rounding

9) Mia goes to football training. She runs the length of the pitch 6 times.

The length of the pitch is 116m

How many metres has Mia run in total?

Show your working and write your answer in the box below. (2)

10) Round 116 to the nearest 100.

Write your answer in the box below. (1)

11) Use your rounded answer to check the answer to question 9.

Write your answer in the box below. (1)

Bret is measuring the length of his garden shed in centimetres. It measures 256cm.

Round 256cm to the nearest 10cm.

Write your answer in the box below. (1)

Number Patterns

1) Ron is a team leader at the activity centre.

He puts 16 people into teams using number patterns.

He gives each person a number from 1 to 16.

Ron shows the numbers from 1 to 12 in this table.

| Team | Number Pattern |
|------|---------------------|
| A | 1, 4, 7, 10, __, __ |
| B | 2, 5, 8, 11, __ |
| C | 3, 6, 9, 12, __ |

Complete the table above for Ron

(2)

2) Sue and Beth take a train to get to the airport.

Train leaves at these minutes past the hour

The minutes follow the pattern.

| | | | | | |
|---|----|----|----|---|---|
| 5 | 11 | 17 | 23 | — | — |
|---|----|----|----|---|---|

What are the next two numbers in this pattern?

(2)

Number Patterns

3) Tom checks how much money the shop takes on Tuesday

These are the times Tom checks the money.

| | | | |
|-------|-------|-------|--|
| 11:00 | 14:00 | 17:00 | |
|-------|-------|-------|--|

The times follow a number pattern.

What is next in the number pattern?

(1)

4) Mia measures her heart rate when she is running.

The table shows what the heart rate for a fit person should be when they are exercising.

Mia knows the heart rate changes with age.

| Age | Heart rate |
|-------|------------|
| 20-29 | _____ |
| 30-39 | _____ |
| 40-49 | 126 |
| 50-59 | 119 |
| 60-69 | 112 |
| 70-79 | 105 |

Complete the number pattern.

Fill in the missing numbers in the table.

(1)

Number Patterns

5) On Mondays I have 2 cups of tea, on Tuesdays I have 3 cups, on Wednesday I have 4 cups, and so on.

a) How many cups do I have on Sunday? (2)

b) How many more cups do I have on Friday than on Tuesday? (2)

6) You are visiting Disney Land. On Monday you go on 10 rides, on Tuesday you go on 12 rides, Wednesday you go on 14 rides and so on.

a) On Friday how many rides do you go on? (1)

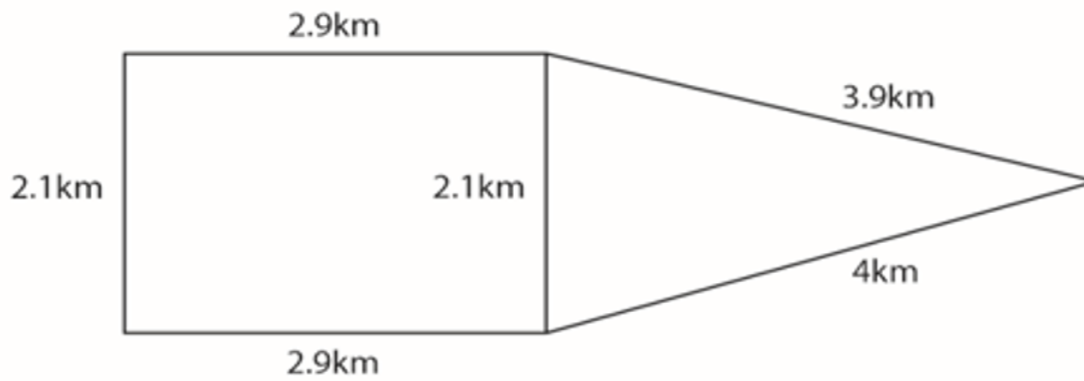
b) How many rides do you go on in total over both Saturday and Sunday? (1)

Decimals

1) You are planning a charity fun run.

You must choose a route for the run. The run must be 10 Km long.

Use the diagram to choose a route for the run. (1)



Show your route in the answer box below. (1)

Show how you can check your route is 10 Km. (1)

Decimals

2) Kerry wants to go for a night out.

Kerry wants to go bowling or see a film at the cinema.

These are the prices.

| Bowling | |
|----------------|--------|
| Bowling ticket | £12.50 |
| Food | £ 5.50 |
| Drink | £ 1.90 |
| Bus Fare | £ 3.00 |

| Cinema | |
|-------------|--------|
| Film ticket | £10.00 |
| Food | £ 6.95 |
| Drink | £ 3.25 |
| Bus fare | £ 3.00 |

Kerry works out the total cost of a ticket, food, drink and bus fare.

Kerry says

“The total cost to go bowling is less than £25

It is also less than £25 to go to the cinema”

Is Kerry correct?

Show why you think this, in the box below?

[4]

Decimals

3) Here is a list of prices at an airport café.

Ryan wants one drink and one snack.

| Drinks | | Snacks | |
|--------|--------|----------|-------|
| Coffee | £ 2.95 | Sandwich | £3.80 |
| Tea | £ 1.95 | Muffin | £2.15 |
| Water | £ 1.45 | Bagel | £2.90 |

Choose one drink and one snack for Ryan.

What is the total cost?

[2]

Ryan has £ 8.65 to pay for the drink and snack.

Does Ryan have enough money for the drink and snack?

(2)

4) Kenny helps to run a local football club.

He wants to buy 5 training footballs and 1 sack.

| |
|------------------------------|
| Training Football £5.20 each |
| Sack £9.50 each |

Find the cost of 5 training footballs and 1 sack.

(3)

Decimals

5) A nurse measures the heights of some children.

She writes down their heights.

- Fred 1.39 m
- Lucy 1.1 m
- Jack 1.4 m
- Ben 1.06 m

Which of these children is the tallest? (1)

Which of these children is the shortest? (1)

6) Toy blocks come in 3 different packs.

Here are the packs and their weights.

What is the weight of the heaviest pack? (1)

Pack A
2.37 Kg

Pack B
1.94 Kg

Pack C
3.21 Kg

Decimals

7) Kevin has a coffee break in the meeting.

He wants something to eat and drink during the break.

| Snacks | | Drinks | |
|----------|--------|--------|--------|
| Sandwich | £ 3.85 | Coffee | £2.55 |
| Muffin | £ 2.35 | Tea | £ 1.40 |
| Bagel | £ 3.20 | Water | £ 1.40 |

Kevin has £ 4.50 to buy one snack and one drink

Choose one snack and one drink for Kevin

What is the total cost

(3)

In the afternoon Kevin buys a bottle of water for £1.10

He pays with a £2 coin. He gets 90p change.

Check if Kevin gets the correct change.

(2)

Decimals

8) Jo wants to buy 3 school shirts.

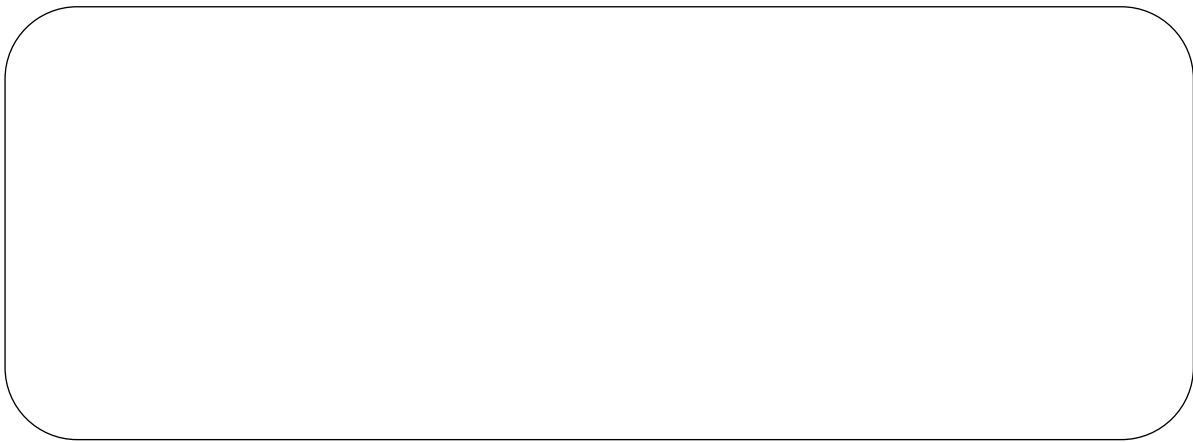
Here are the prices of shirts at the two clothes shops.

| |
|-------------------|
| Super Tops |
| Shirts |
| £4.60 |

| |
|--------------------|
| New Fashion |
| Pack of 3 shirts |
| £12 |

Jo thinks New Fashion is cheaper than Super Tops.

How much cheaper are 3 shirts from New Fashion than from Super Tops? (4)



Time

1) Draw the hands correctly on the clocks below.

(Remember the hour hand is only pointing exactly on the number at o'clock, at any other time it will be after the number).



11:20

(2)



7:50

(2)



4:25

(2)

2) Write the correct time of the clocks in words.



(2)

Time

3) The total time taken for a swimming relay team is found by adding together the times of the four swimmers in the team.

Their times are 36 seconds, 45 seconds, 40 seconds and 38 seconds.

What is their total time? (2)

_____ minutes _____ seconds

4) Claire knows that the train she needs to catch for London leaves Milton Keynes at 9:37am.

It will arrive in London 45 minutes later.

What time will the train arrive in London?

Give your answer in 24-hour format. (3)

5) Harry wants to catch the 07:30 train to York. He wants to be at the station 10 minutes before the train is due. The bus to the station takes 35 minutes and it takes him 10 minutes to walk to the bus stop.

What time should he leave his house? (3)

Time

6) Lisa runs the marathon and it takes her 6 hours and 25 minutes. Her friend Lorraine finished 1 hour and 45 minutes quicker than Lisa.

How long did it take Lorraine? (2)

7) If Lisa started the marathon at 9:35 am, what time did she finish? (2)

8) Fatima decides to abseil down the Shard in London.

The journey down normally takes 33 minutes.

However, on her way down, she stops for 18 minutes to take some photos.

Eventually she arrives at the bottom of the Shard.

Looking at her watch she sees that it is now 12:15.

At what time did she set off? (3)

Charts and Graphs

1) Stan makes different types of biscuits.

| Type of biscuit | Baking time (minutes) | Oven temperature (°F) |
|-----------------|-----------------------|-----------------------|
| Oat | 15 | 360 |
| Ginger | 30 | 350 |
| Chocolate | 12 | 325 |
| Flapjack | 25 | 275 |
| Digestive | 15 | 340 |

(a) Which type of biscuit has the longest baking time?

Write your answer in the box below.

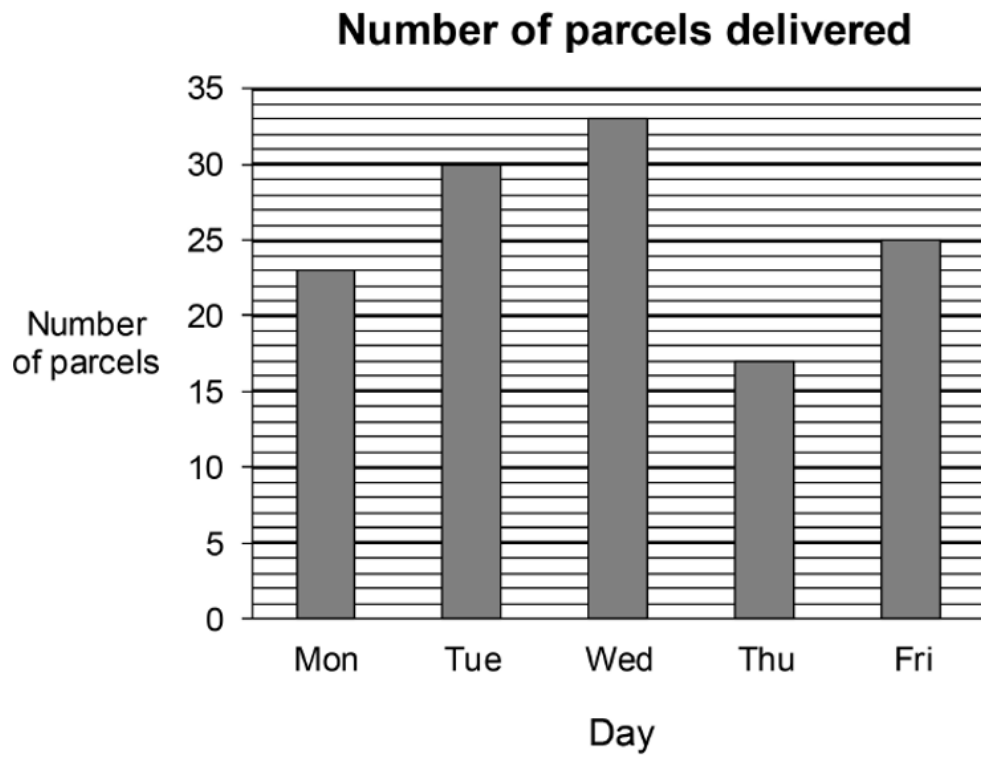
(1)

(b) What is the oven temperature for the flapjacks?

Write your answer in the box below.

(1)

2) This bar chart shows the number of parcels delivered in one week.



How many parcels were delivered on Monday?

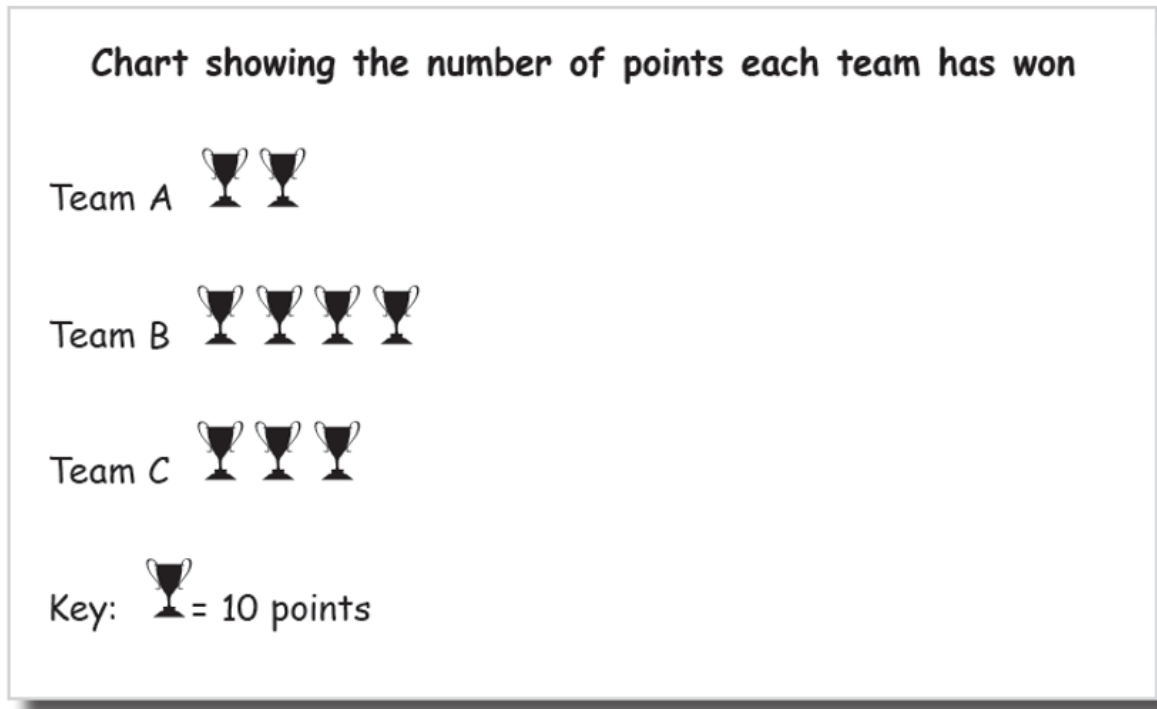
Write your answer in the box below.

(1)

3) A team wins points for activities at a centre.

Ron draws a chart to show how many points each team has won.

Here is the chart.

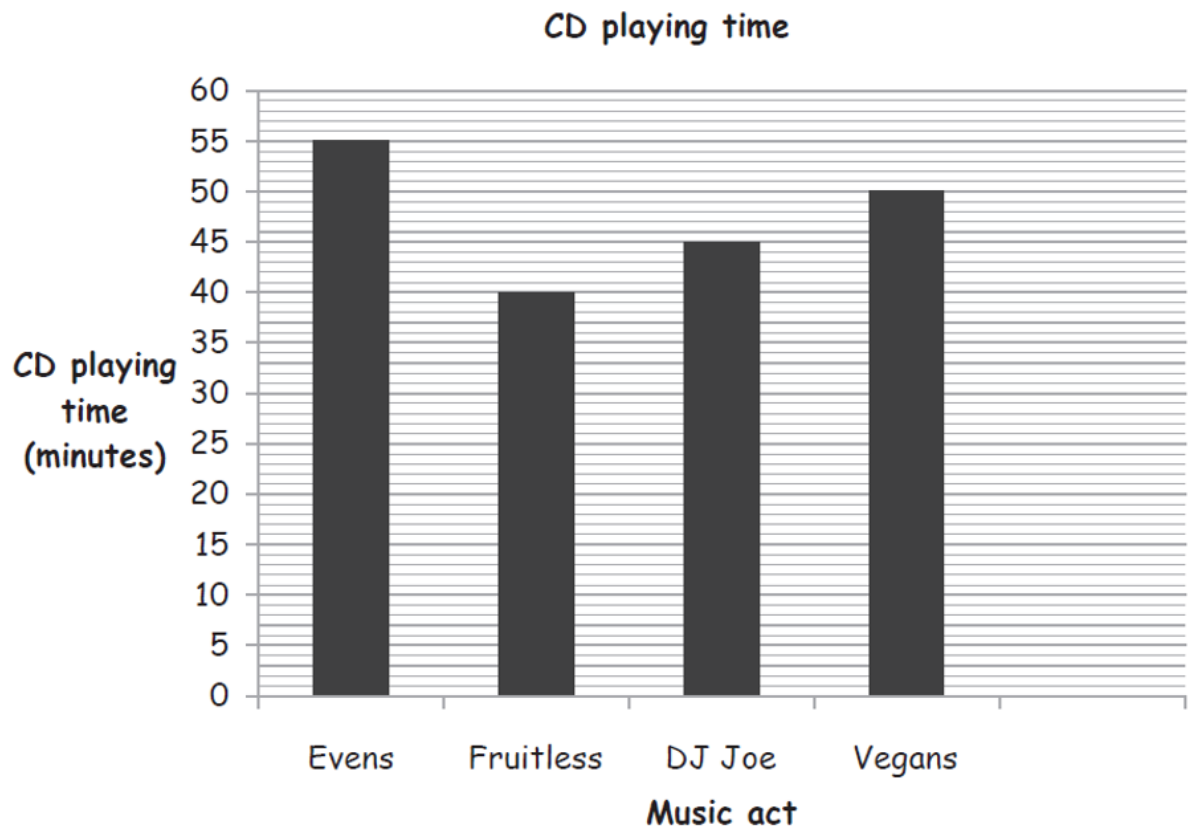


How many points did team C win in total?

Write your answer in the box below.

(2)

4) The chart shows the playing times of some CDs.



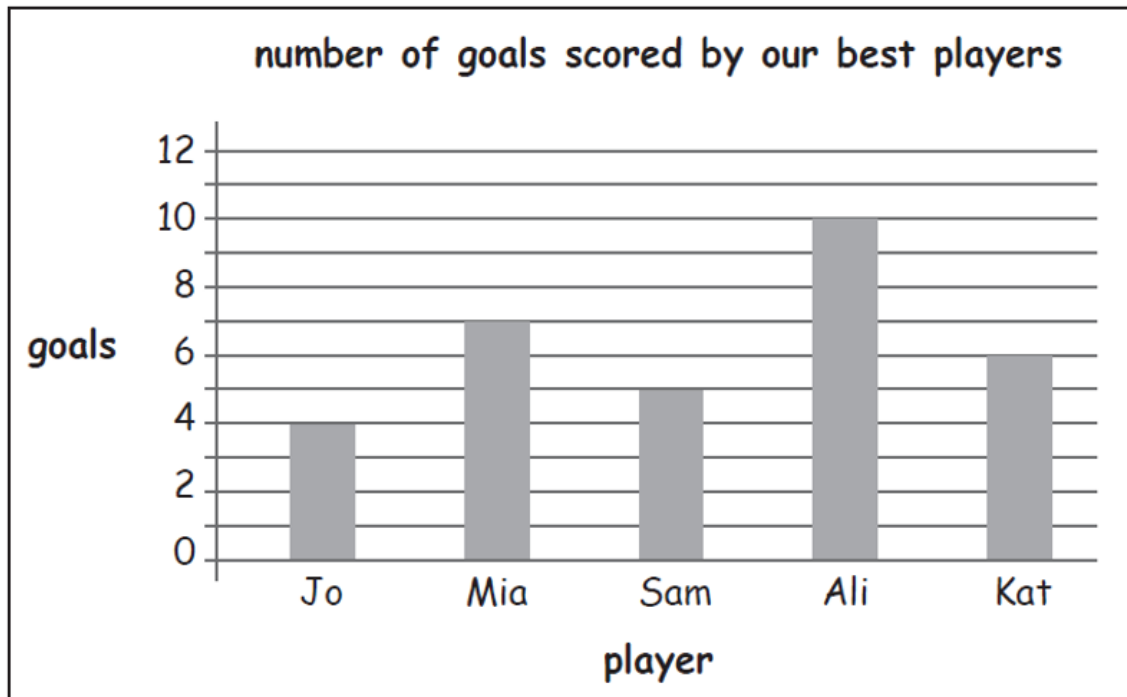
Find the difference between the longest playing time and the shortest playing time.

Write your answer in the box below.

(3)

5) Mia wants to compare the number of goals scored by the best players in the team.

Mia looks at this chart.



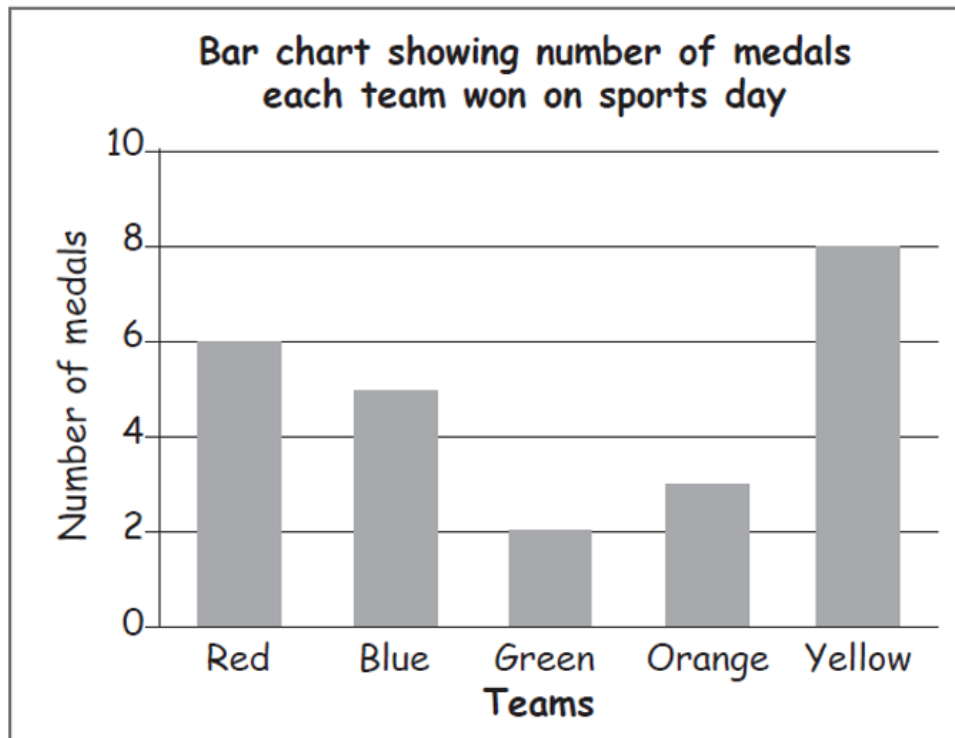
How many more goals did Ali score than Mia?

Write your answer in the box below.

(2)

6) Students win a medal if they are first, second and third in any event.

The bar chart shows how many medals each team won.



(a) Which team won the most medals?

Write your answer in the box below.

(1)

(b) How many medals did the orange team win?

Write your answer in the box below.

(1)

7) You order t-shirts in different sizes to give to runners.

| Size of t-shirt | Number order |
|-----------------|--------------|
| Small | 30 |
| Medium | 40 |
| Large | 50 |
| Extra large | 30 |

(a) Which size of t-shirt do you order the most?

Write your answer in the box below.

(2)

(b) Which sizes of t-shirt do you order the same of?

Write your answer in the box below.

(1)

Geometric Shapes

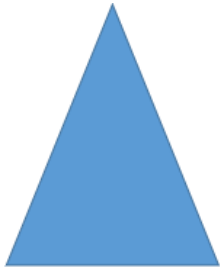
1) Name these shapes.



b) _____



a) _____



c) _____



d) _____



e) _____



f) _____

(6)

Geometric Shapes

2) How many lines of symmetry are there in the arrow below?



(1)

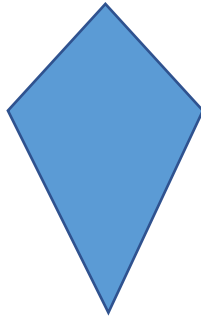
3) How many lines of symmetry in a rectangle?



(1)

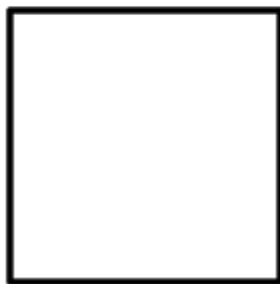
Geometric Shapes

4) How many lines of symmetry in a kite?



(1)

5) How many lines of symmetry in a square?



(1)

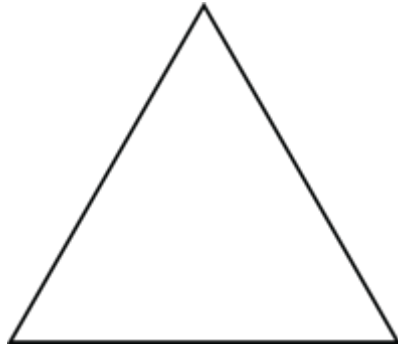
Geometric Shapes

6) Draw the lines of symmetry on these shapes.



(6)

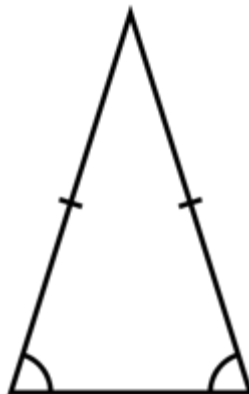
7) How many lines of symmetry in an equilateral triangle?



(1)

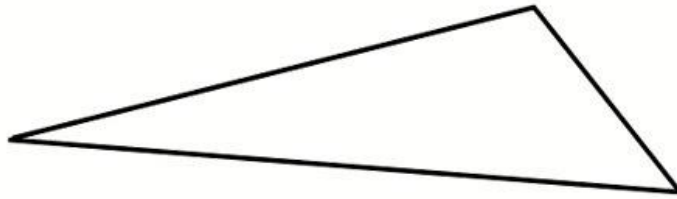
8) How many lines of symmetry in an Isosceles triangle?

(1)



Geometric Shapes

9) How many lines of symmetry in a scalene triangle?



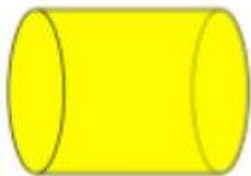
(1)

10) The names of six 3- D shapes are given below. Match the correct name to the ones which are drawn below.

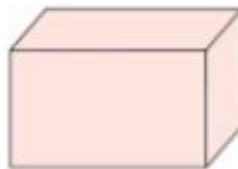
(3)

| | | |
|--------|----------|------------------|
| Cube | Sphere | Triangular Prism |
| Cuboid | Cylinder | Cone |

(a)



(b)

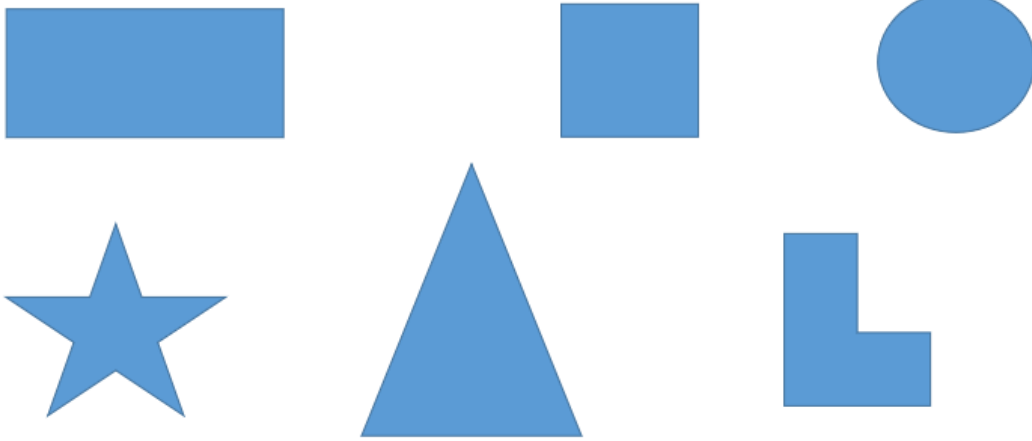


(c)



Geometric Shapes

11) Which of the following shapes has only 2 lines of symmetry?



(1)

Geometric Shapes

12) Label the internal angles of these shapes.



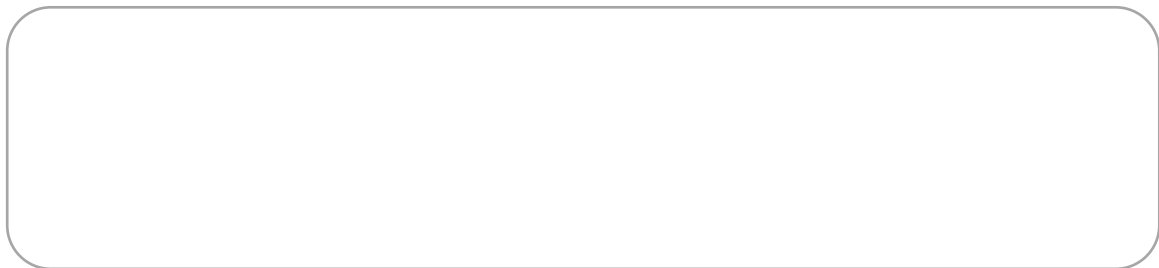
Geometric Shapes

13) Darren has drawn a 3-D shape.

- His shape has 6 faces.
- Every face is the same.
- It has 8 vertices (corners)
- It can stack on top of other shapes.

What shape has he drawn?

(1)



14) Complete the following sentences.

- a) This 2-D shape has 4 straight edges, 2 of them are long and 2 of them are short. It also has 4 corners. It is a _____
- b) This 2-D shape has 3 straight edges and 3 corners. It is a _____
- c) This 2-D shape has no straight edges, only one curved edge. It has no corners. It is a _____
- d) This 2-D shape has edges and 6 corners. It is a _____

(4)

Measures

1) Fatima has covered 3 miles on her run.

If she carries on for another 2 miles, how far will she have run in total?

2) Simon is painting his garden fence.

The fence is 80 m long. So far, he has painted 45 m.

How much does he have left to paint? (1)

3) Andrew has three planks of wood.

Two planks are each 1.5 m long. One plank is 2.5 m long.

What is the total length of all three planks? (1)

Measures

4) Jacob is building a wall. It is 1.5 m high. He wants to add another 50 cm to the wall. How high will the wall be when Jacob has finished it? (1)

5) Victoria is making a bracelet by putting beads on a string.

Each bead is 5mm wide.

The string is 14 cm long.

How many beads can Victoria fit on the string? (2)

6) Tony wants to buy a rug.

The rug needs to be at least 1.7 m long and no longer than 2.7 m.

Which of the following rugs could Tony choose? (1)

| Rug | 1 | 2 | 3 | 4 | 5 |
|--------|-------|-------|-------|-------|-------|
| Length | 1.9 m | 2.9 m | 2.6 m | 1.5 m | 2.6 m |

Measures

7) Deepak has bought a fountain. It takes him three full 0.5 gallon buckets of water to fill it.

How much water is in the fountain? (1)

8) Sue wants to buy a small bottle of shampoo to take a holiday.

The bottle can have a maximum capacity to 100 ml.

She finds 3 bottles in the shop: 85 ml, 125 ml and 50 ml.

Sue wants to buy the biggest bottle she can to use on holiday.

Which one should she buy? (1)

9) Charlie is having a new hot water tank fitted in his guest house.

He wants it to have a capacity of over 140 L but less than 160L.

Which hot water tank should Charlie choose? (1)

| Hot water tank | Capacity |
|----------------|----------|
| Duchess XL | 150 L |
| Herald 175 | 175 L |
| Issigo ZF | 130 L |
| AEB 224 | 165 L |

Measures

10) Sarah recently lost 11 lb in weight, before this she weighed 178 lb.

How much does she weigh now?

(1)

11) Paul needs to carry some bags to his car.

Each bag weigh 5 kg.

Paul can safely carry 20 kg in one go.

How many bags can he carry in one go?

(1)

12) Harriet buys 1 kg of pasta.

She uses 350 g for a recipe.

How much does she have left?

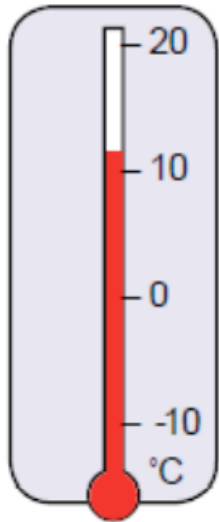
(1)

Measures

13) Claire reads the temperature in her greenhouse.

What is the temperature to the **nearest marked division**?

(1)

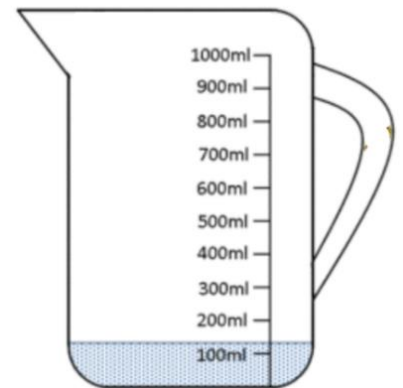


14) Liz is going backpacking.

She started with 1 litre of water.

The jug shows how much she has left.

How much has she drunk to the **nearest marked division**? (3)



15) Circle the highest temperature.

(1)

27°C

38°C

21°C

Measures

16) Circle the lowest temperature.

(1)

2°C

0°C

5°C

17) What temperature is 12°C colder than 50°C

(1)

18) The temperature in Amada's flat on Monday morning was 18.5°C.

On Tuesday morning it was 17°C

What is the different in temperature between the two mornings?

(1)

19) Jack has 3 recipes for biscuits. One says to set the oven to 200°C, and another says 190°C and the final recipe says 225°C.

Jack decides to set the oven to the lowest temperature.

Which temperature is this?

(1)

Measures

20) What instrument would you use to measure the weight of flour?

Circle the correct answer

(1)

Bathroom scales

Ruler

Tape measure

Kitchen scales.

Organising Data

1) This data shows the types of cars different people drive.

| | | | | |
|-------|----------|----------|----------|----------|
| Ford | Flat | Honda | Vauxhall | BMW |
| BMW | Ford | Flat | Ford | Honda |
| Honda | Vauxhall | Ford | BMW | Honda |
| Ford | Flat | Vauxhall | Ford | Vauxhall |

Complete the frequency table to show the above data.

| Type of Car | Frequency |
|-------------|-----------|
| | |
| | |
| | |
| | |
| | |

a) What type of car was most popular? (1)

b) How many people were asked in total? (1)

2) In a survey, 65 people were asked about their favourite sport and the information was recorded in a table.


| sport | Frequency |
|--------------|-----------|
| Badminton | 20 |
| Judo | 15 |
| Squash | 25 |
| Table Tennis | 5 |

Draw a pictogram for each of the following tables.

Use a suitable key.

(3)

| | |
|--------------|--|
| Badminton | |
| Judo | |
| Squash | |
| Table Tennis | |

Key:  represent ____ . ____

Organising Data

3) 66 People were asked about how many bathrooms they had in their house. 30 people had 1 bathroom. 21 people had 2, 5 people had 3 and 7 people had 4 bathrooms, the rest had 5 or more.

Use this information to complete the frequency table below.

(3)

| Number of bathrooms | Frequency |
|---------------------|-----------|
| | |
| | |
| | |
| | |
| | |

4) Kay wants to record the ratings from a survey.

She starts to fill in the tally chart below.

| Rating | Tally | Number of people/ Frequency |
|-----------|-------|--------------------------------|
| Poor | | |
| Ok | | 4 |
| Good | | |
| Excellent | //// | |

Kay still needs to put these ratings into the tally chart and complete the last column of the table.

| | | | | |
|-----------|-----------|------|-----------|-----------|
| poor | good | good | excellent | Poor |
| excellent | excellent | good | good | excellent |
| good | poor | poor | good | poor |

a) Complete the tally chart fully for Kay.

(2)

5) Teddy works at a cinema.

He sells frozen drinks in 4 different flavours.

Teddy wants to compare the number of sales of each flavour.

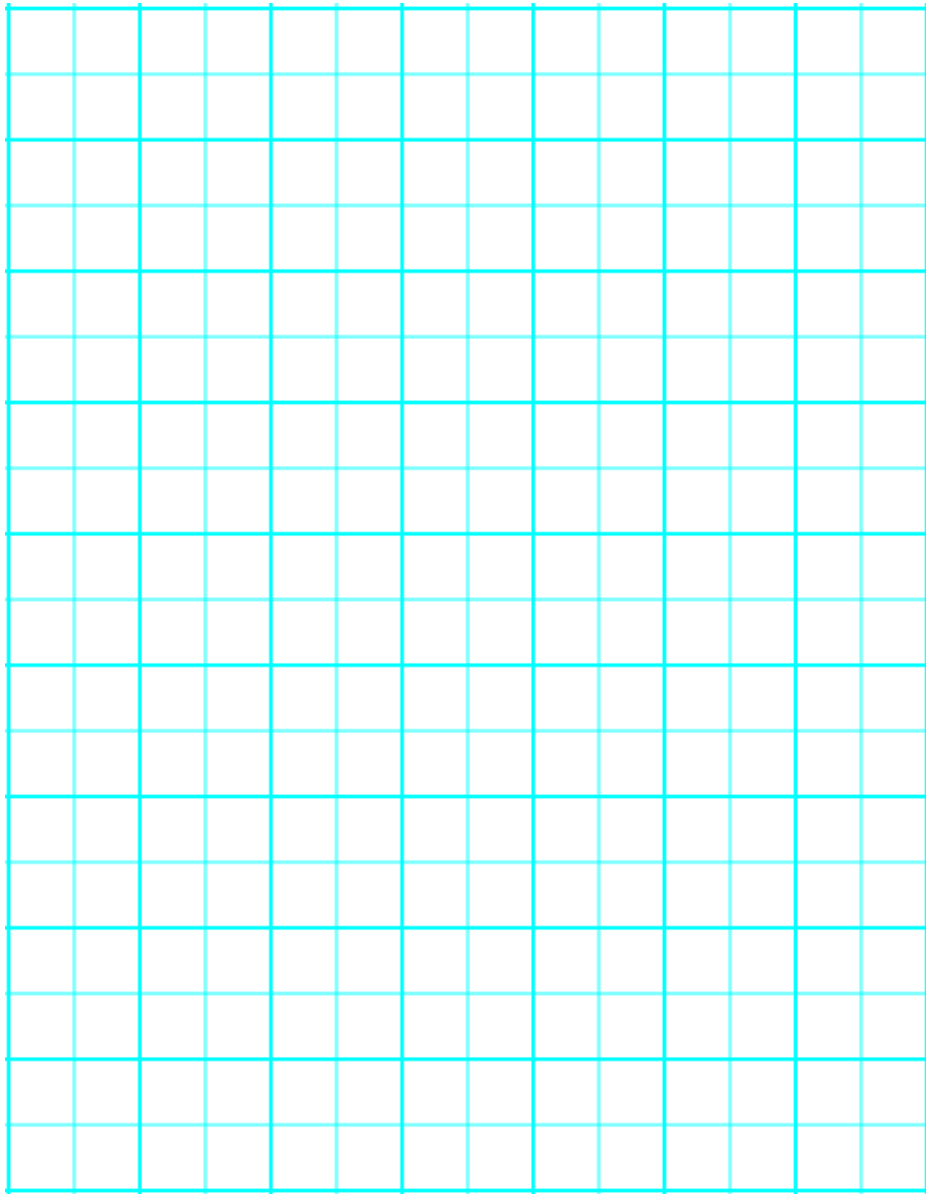
He has this information about the sales last week.

| Flavour | Raspberry | Cherry | Lemon | Orange |
|-----------------|-----------|--------|-------|--------|
| Number of sales | 195 | 80 | 155 | 110 |

Draw a graph or chart to compare the number of sales of each flavour last week.

Use the squared paper below to draw your graph or chart.

(3)



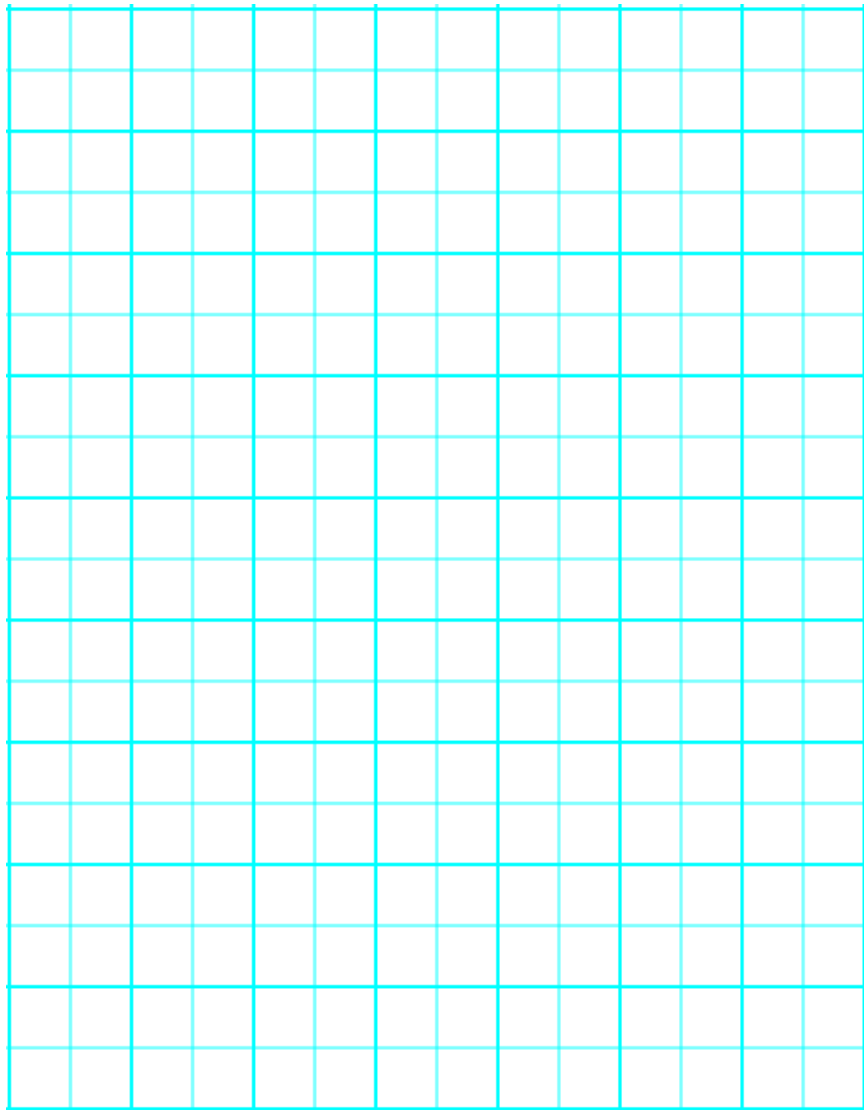
6) Mikael wants to draw a graph to show the times for these 5 tests.

| Test | A | B | C | D | E |
|----------------|------|------|------|------|------|
| Time (seconds) | 25.1 | 24.3 | 26.8 | 27.6 | 29.2 |

Mikael starts to draw a graph to show this information

Complete the graph for Mikael.

(3)



7) The tour company offers different tours.

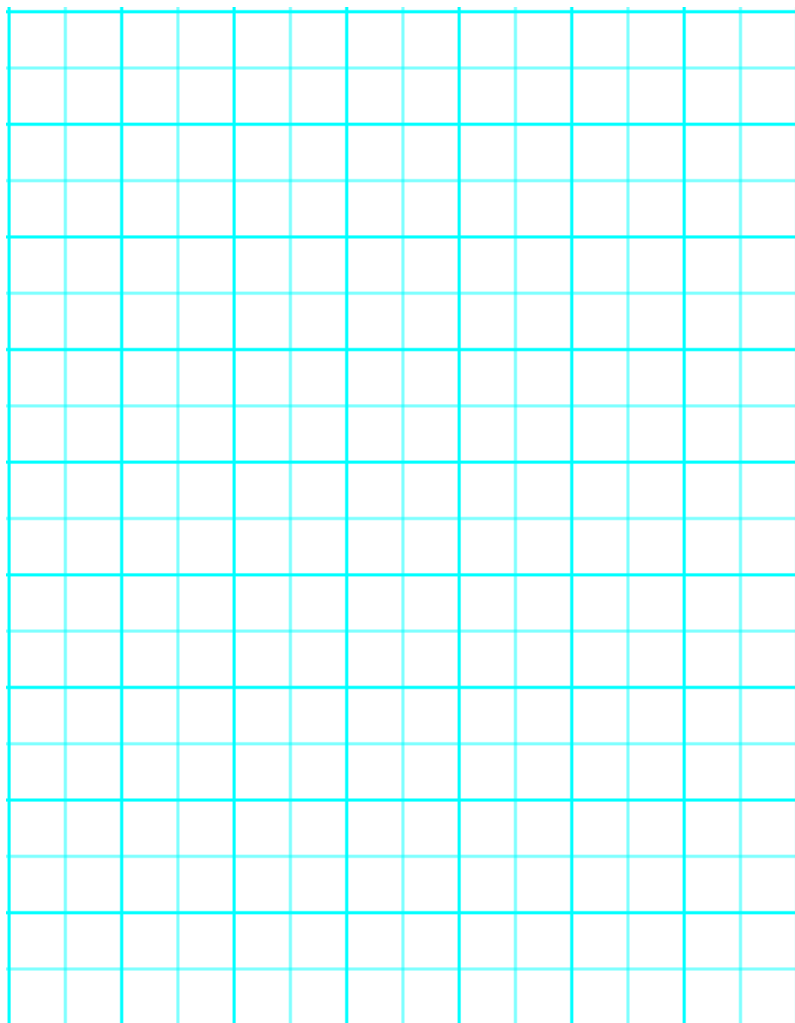
Olga has this information about the number of people who booked on each tour last year.

| Tour | Walking | Day boat trip | Evening boat trip | Cable car | Lake |
|------------------|---------|---------------|-------------------|-----------|------|
| Number of people | 5500 | 3000 | 2400 | 4500 | 2600 |

Olga wants to show this information in a graph or chart



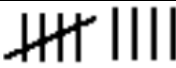

Draw a suitable graph for Olga.

(3)



8) Tim wants to find out what type of film his friends like to watch.

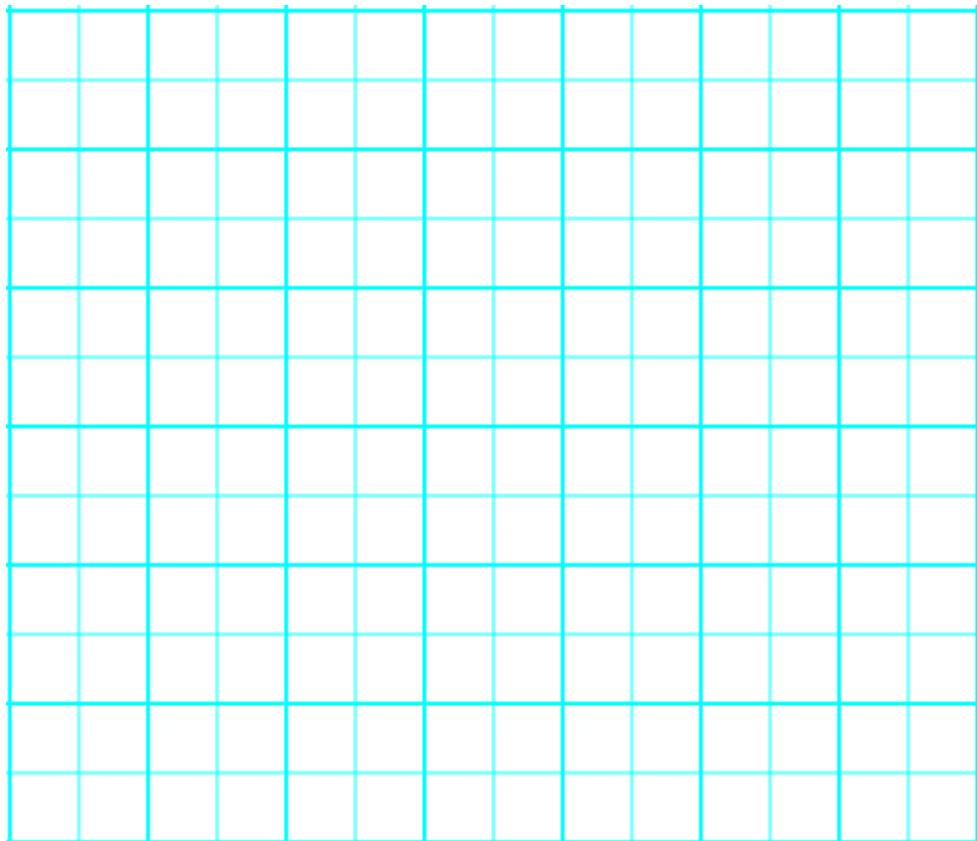
He uses this data collection table to show the information he has collected so far.

| | | Types of film | | | |
|-------------------|--|---|---|--|---|
| | | Action | Science fiction | comedy | Drama |
| Number of friends | |  |  |  |  |

Tim uses the data collection table to make a chart.

Use the information from data collection table and display it on a **Bar chart**.

(3)



9) Tariq wants a graph to show the number of people who did a parachute jump each month.

52 people completed a jump in May, 64 in June, 70 in July, 92 in August and 78 in September.

Use the information from above display it on a **Line graph**. (3)

