Chhetri Academy

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GCSE MATHS

Number

Edexcel 1MA1 | Subtopic collection Topic 03

Fractions and mixed numbers

Foundation tier

Past paper question booklet

105	2010-2025	Foundation
question groups	available papers	tier

Before you begin

1. Show working and use units where appropriate.
2. Use extra paper if you need more space.
3. Print at actual size (100%) for measurement questions.

Name _____ **Date** _____

Whole questions are retained for context; some parts cover other points. Legacy sources are labelled.

4 (a) Write $\frac{1}{4}$ as a decimal.

.....

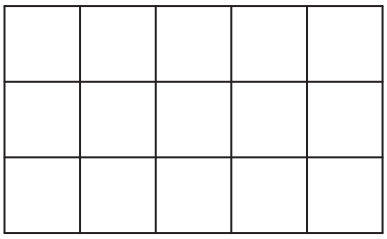
(1)

(b) Write the fraction $\frac{18}{24}$ in its simplest form.

.....

(1)

(c) Shade $\frac{3}{5}$ of this shape.



(1)

(Total for Question 4 is 3 marks)

2 (a) Work out $90 \div 10$

.....

(1)

(b) Write these numbers in order of size.
Start with the smallest number.

2.8 4.71 0.6 13.4

.....

(1)

(c) Write $\frac{7}{10}$ as a decimal.

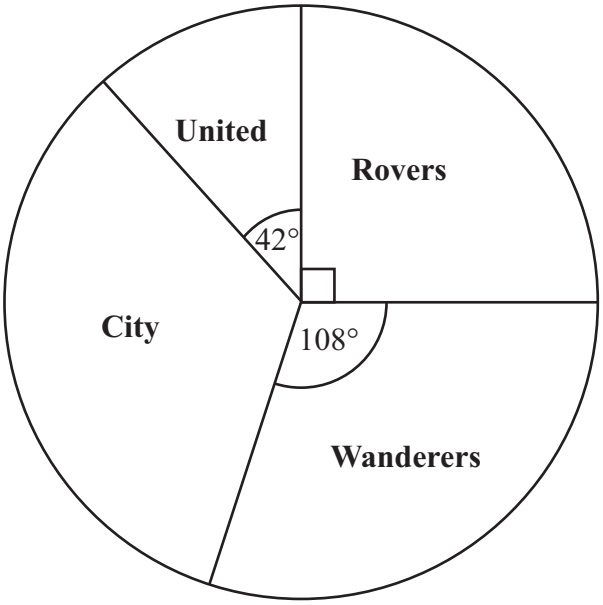
.....

(1)

(Total for Question 2 is 3 marks)

6 Alex asked some people to name their favourite football team.

The pie chart shows his results.



(a) What fraction of the people named Rovers as their favourite team?

.....

(1)

20 people named City as their favourite football team.

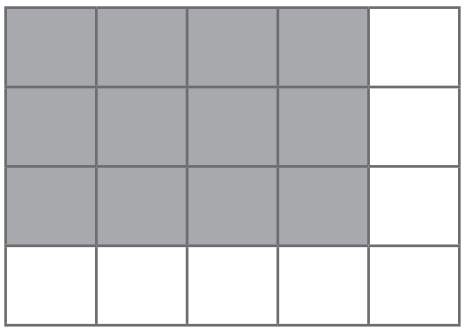
(b) How many people named Rovers as their favourite team?

.....

(4)

(Total for Question 6 is 5 marks)

3



(a) What fraction of this shape is shaded?
Write your fraction in its simplest form.

.....

(2)

(b) Shade $\frac{3}{8}$ of this shape.



(1)

(Total for Question 3 is 3 marks)

20 Use a calculator to work out

$$\frac{\sqrt{20.4}}{6.2 \times 0.48}$$

Write down all the figures on your calculator display.
Give your answer as a decimal.

.....

(Total for Question 20 is 2 marks)

Question 06

1 (a) Write $\frac{1}{4}$ as a decimal.

.....

(1)

(b) Write 0.75 as a fraction.

.....

(1)

(c) Write 200 mm in centimetres.

..... cm

(1)

(Total for Question 1 is 3 marks)

6 There are 150 people on a train.

At the first stop

10 people get off the train
25 people get on the train.

At the next stop

5 people get off the train
16 people get on the train.

(a) How many people are on the train now?

.....

(3)

The train has 240 seats.
80 of the seats are red.

(b) What fraction of the seats are red?
Give your fraction in its simplest form.

.....

(2)

(Total for Question 6 is 5 marks)

13 There are 700 students in a college.
All of the students are 16 years old, 17 years old or 18 years old.

$\frac{1}{10}$ of the students are 16 years old.

$\frac{1}{5}$ of the students are 18 years old.

Work out how many of the students are 17 years old.

.....

(Total for Question 13 is 4 marks)

Question 09

1 (a) Write 0.1 as a fraction.

.....

(1)

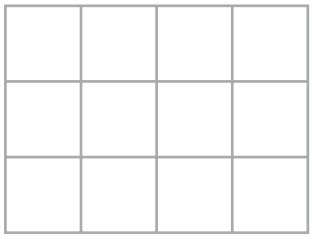
(b) Write $\frac{1}{4}$ as a decimal.

.....

(1)

(Total for Question 1 is 2 marks)

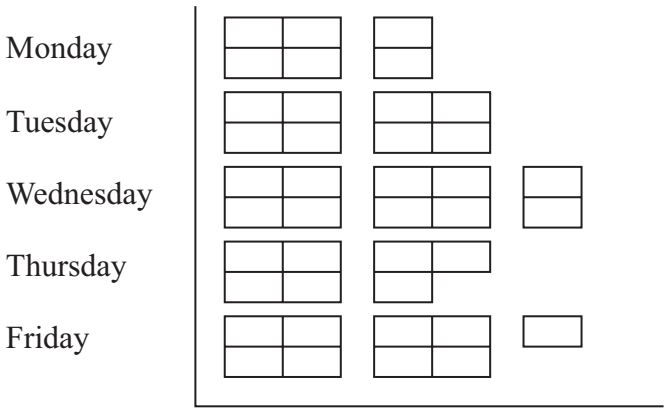
5 Here is a shape.

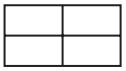


Shade $\frac{3}{4}$ of this shape.

(Total for Question 5 is 1 mark)

5 Here is a pictogram.
It shows the number of boxes of chocolates Mr Fenn sold last week from Monday to Friday.



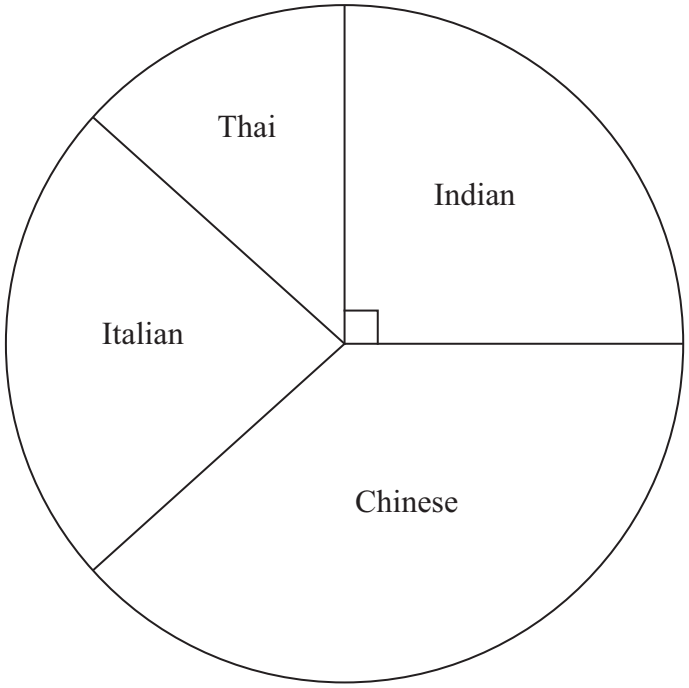

Represents 20 boxes of chocolates sold

What fraction of the total number of these boxes of chocolates did Mr Fenn sell on Tuesday?

.....

(Total for Question 5 is 3 marks)

12 The pie chart shows some information about the types of food that 60 people like best.



(a) (i) Measure the angle for Thai.

.....°

(ii) What fraction of the people like Thai food best?

.....

(2)

(b) Work out the number of people who like Chinese food best.

.....

(3)

(Total for Question 12 is 5 marks)

4 (a) Write $\frac{1}{2}$ as a decimal.

.....

(1)

(b) Write 0.75 as a fraction.

.....

(1)

(c) Write 19 out of 30 as a fraction.

.....

(1)

(Total for Question 4 is 3 marks)

18 Use your calculator to work out

$$\sqrt{84.64} + 3.2^3$$

Write down all the figures on your calculator display.
You must give your answer as a decimal.

.....

(Total for Question 18 is 2 marks)

22 (a) Use your calculator to work out 5.9^2

.....

(1)

(b) (i) Use your calculator to work out $\sqrt{500} + 12.8$

Write down all the figures on your calculator display.
You must give your answer as a decimal.

.....

(ii) Write your answer to part (i) correct to 1 decimal place.

.....

(2)

(Total for Question 22 is 3 marks)

8 There are only yellow pencils, red pencils, green pencils and blue pencils in a box.

The pie chart gives information about the numbers of pencils of each colour.

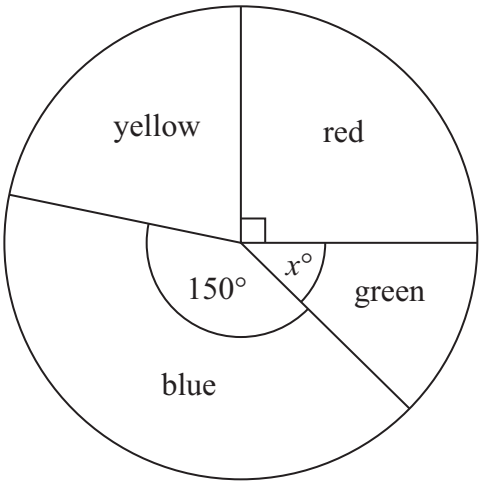


Diagram **NOT** accurately drawn

(a) What fraction of the total number of pencils in the box is red?

.....

(1)

In the pie chart, the angle used for yellow is twice the angle used for green.

(b) Write down an expression, in terms of x, for the angle used for yellow.

.....

(1)

There are 48 pencils in the box.

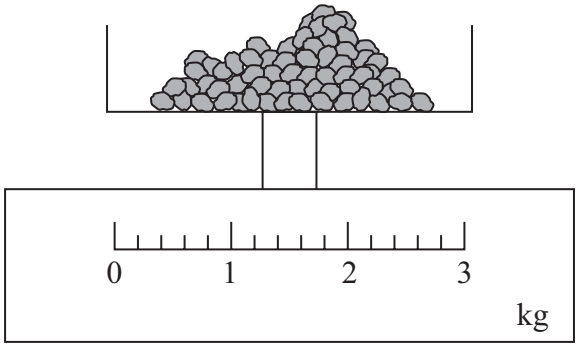
(c) Work out the number of blue pencils in the box.

.....

(2)

(Total for Question 8 is 4 marks)

11 Jordan wants to make two dried fruit puddings.
He weighs some dried fruit.



The dried fruit weighs 0.8 kg.

(a) On the scale, show with an arrow (↑), 0.8 kg.

(1)

Jordan needs $\frac{3}{4}$ kg of dried fruit to make one pudding.

(b) Work out how much more dried fruit Jordan needs to make two puddings.
Give your answer in grams.

.....grams

(4)

(Total for Question 11 is 5 marks)

7 (a) Write $\frac{3}{4}$ as a decimal.

.....

(1)

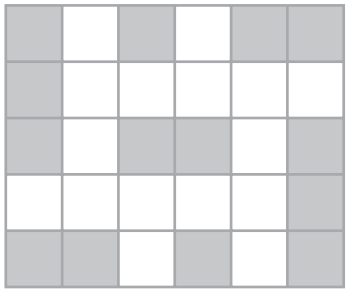
(b) Write 0.3 as a fraction.

.....

(1)

(Total for Question 7 is 2 marks)

11



(a) What fraction of this shape is shaded?
Give your answer in its simplest form.

.....

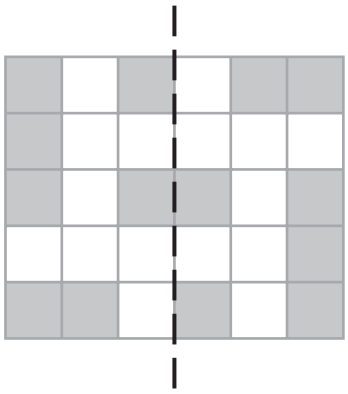
(2)

(b) Write down the order of rotational symmetry of the shape.

.....

(1)

(c) On the shape below, shade as few squares as possible so that the dotted line is a line of symmetry.



(2)

(Total for Question 11 is 5 marks)

***21** Here are two fractions.

$$\frac{2}{3} \qquad \frac{7}{8}$$

Which of these fractions has a value closer to $\frac{3}{4}$?

You must show clearly how you get your answer.

(Total for Question 21 is 3 marks)

1 (a) Write these numbers in order of size.
Start with the smallest number.

3007 4435 399 4011 3333

.....

(1)

(b) Write these numbers in order of size.
Start with the smallest number.

3.7 5.62 0.7 14.3

.....

(1)

(c) Write $\frac{9}{10}$ as a decimal.

.....

(1)

(d) Write $\frac{11}{8}$ as a mixed number.

.....

(1)

(Total for Question 1 is 4 marks)

1 (a) Use your calculator to find the value of

(i) $5.71 - 3.04$

.....

(ii) $2.4 \div 0.6$

.....

(iii) $\sqrt{3.24}$

.....

(3)

(b) Write 0.53 as a fraction.

.....

(1)

(c) Write $\frac{3}{5}$ as a decimal.

.....

(1)

(Total for Question 1 is 5 marks)

3 (a) Work out 56×1000

.....

(1)

(b) Work out $600 - 324$

.....

(1)

(c) Work out $\frac{1}{4}$ of 24 kg

..... kg

(1)

(d) Work out $4 \times 5 + 9$

.....

(1)

(e) Work out $18 - 10 \div 2$

.....

(1)

(Total for Question 3 is 5 marks)

3 (a) Write $\frac{7}{10}$ as a decimal.

.....

(1)

(b) Write 0.45 as a percentage.

.....%

(1)

(c) Write 30% as a fraction.
Give your fraction in its simplest form.

.....

(2)

(d) Write the number 2.738 correct to 2 decimal places.

.....

(1)

(Total for Question 3 is 5 marks)

19 There are 240 counters in a bag.
The counters are green or yellow or blue.

$\frac{3}{5}$ of the counters are green.

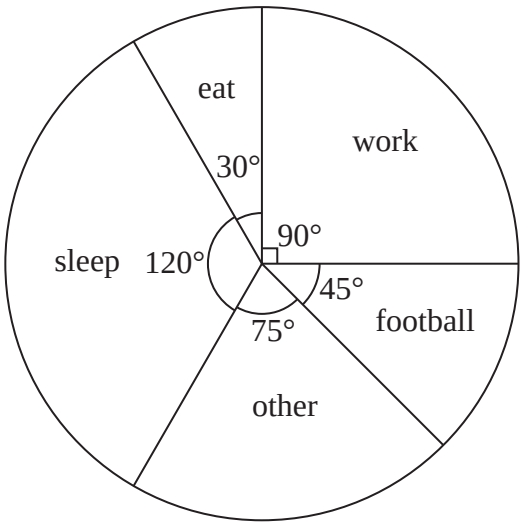
$\frac{1}{4}$ of the counters are yellow.

Work out the number of blue counters in the bag.

.....

(Total for Question 19 is 4 marks)

7 The pie chart gives information about what Ryan did in 24 hours one Saturday.



(a) What did Ryan do most?

.....

(1)

(b) Write down the fraction of the pie chart that shows when Ryan was working.

.....

(1)

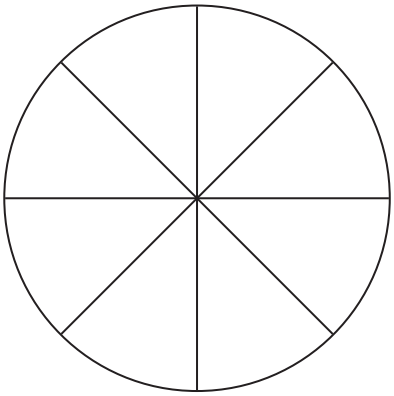
(c) How many hours did Ryan do football?

..... hours

(2)

(Total for Question 7 is 4 marks)

3 (a) Shade $\frac{3}{4}$ of this shape.



(1)

*(b) Which has the greater value 0.3 or $\frac{1}{3}$?

Give a reason for your answer.

(2)

(Total for Question 3 is 3 marks)

5 (a) Write $\frac{1}{4}$ as a decimal.

.....

(1)

(b) Write 0.15 as a fraction.

.....

(1)

(c) Write 17 out of 40 as a fraction.

.....

(1)

(Total for Question 5 is 3 marks)

1 (a) Write $\frac{1}{5}$ as a decimal.

.....

(1)

(b) Write 0.37 as a fraction.

.....

(1)

(c) Work out $1 \div 0.25$

.....

(1)

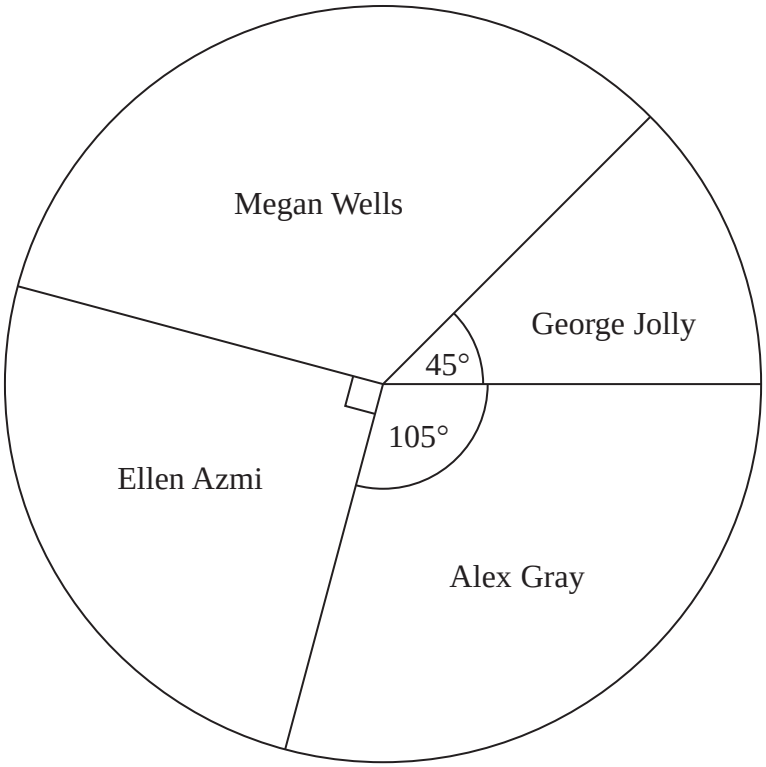
(d) Work out -2×-3

.....

(1)

(Total for Question 1 is 4 marks)

18 The pie chart shows information about the number of votes each of four candidates got in an election.



(a) What fraction of the votes did Megan Wells get?

.....

(2)

Ellen Azmi got 4500 votes.

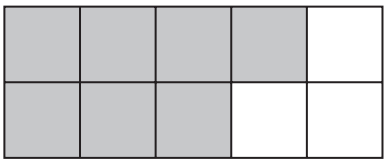
(b) Work out the total number of votes the four candidates got.

.....

(2)

(Total for Question 18 is 4 marks)

5



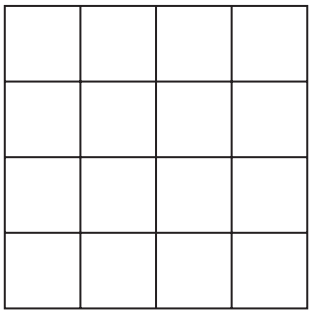
(a) What fraction of the shape above is shaded?

.....

(1)

(b) Shade $\frac{3}{4}$ of this shape.

(1)



Jack has 80 marbles.

He gives $\frac{1}{5}$ of the marbles to his friends.

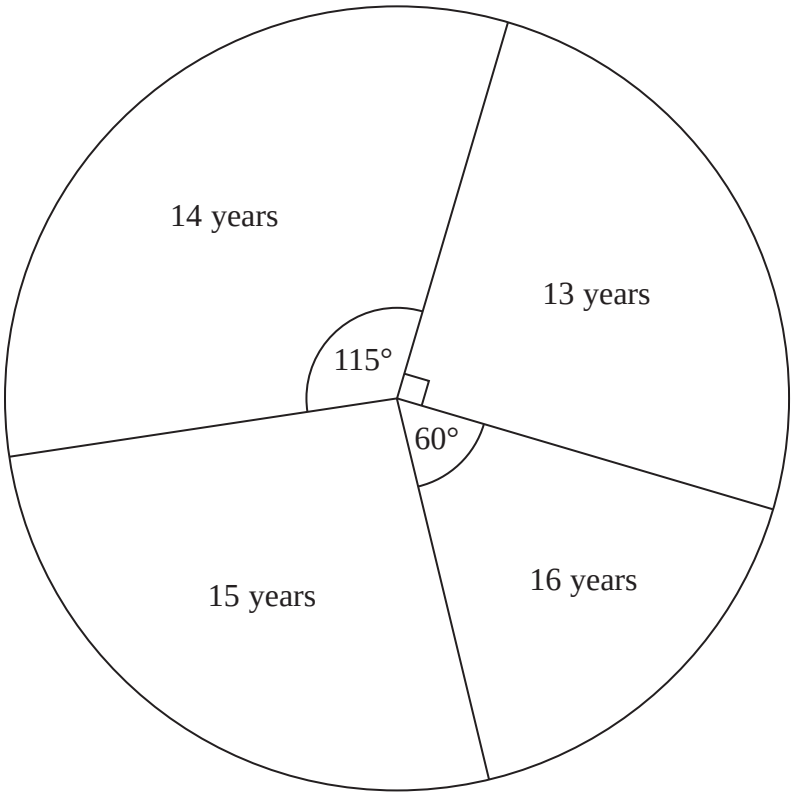
(c) Work out how many marbles Jack now has.

.....

(3)

(Total for Question 5 is 5 marks)

12 The pie chart shows information about the ages of students at an athletics competition.



(a) What fraction of the students have an age of 13 years?

.....

(1)

23 of the students have an age of 14 years.

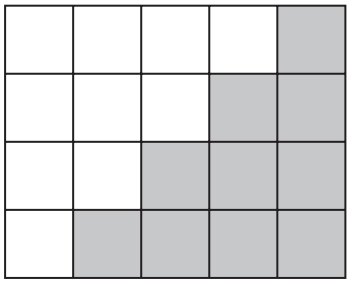
(b) Work out how many of the students have an age of 15 years.

.....

(3)

(Total for Question 12 is 4 marks)

7



(a) What fraction of this shape is shaded?

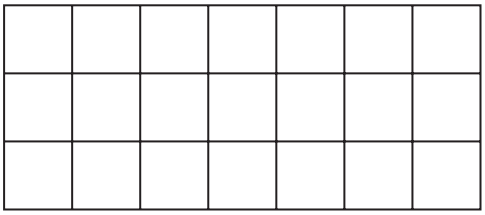
.....

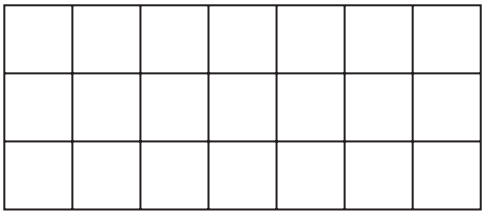
(1)

*(b) Here are two fractions $\frac{2}{3}$ and $\frac{5}{7}$

Which is the larger fraction?
Explain your answer.

You may use the grids below to help explain your answer.





(3)

(Total for Question 7 is 4 marks)

19 There are some red counters and some yellow counters in a bag in the ratio 1 : 5

(a) What fraction of the counters in the bag are red?

.....

(1)

There are 20 yellow counters in the bag.

(b) Work out the number of red counters in the bag.

.....

(2)

Janet puts some more red counters into the bag.
The ratio of the number of red counters to the number of yellow counters is now 1 : 2

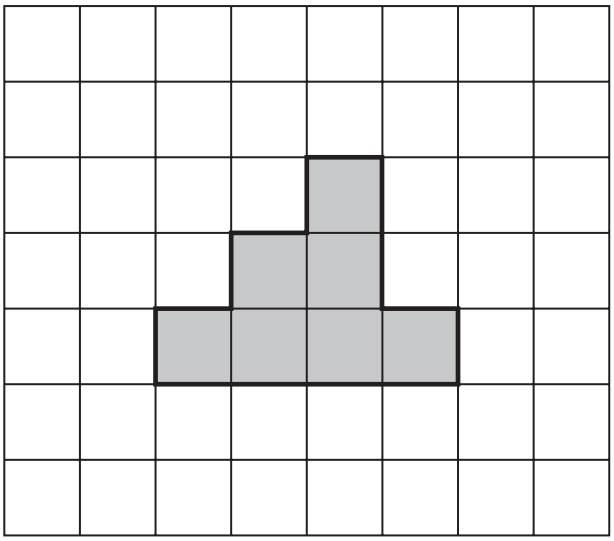
(c) How many red counters does Janet put into the bag?

.....

(2)

(Total for Question 19 is 5 marks)

11 Here is a shaded shape drawn on a centimetre grid.



(a) Work out the perimeter of this shape.

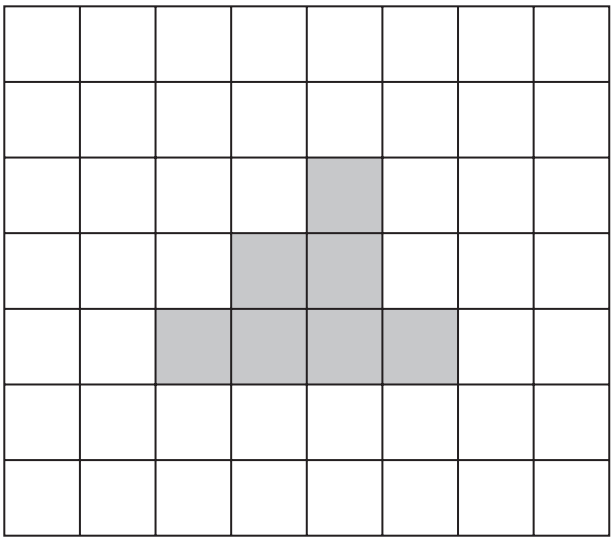
.....

(2)

(b) What fraction of the grid is shaded?
Give your answer in its simplest form.

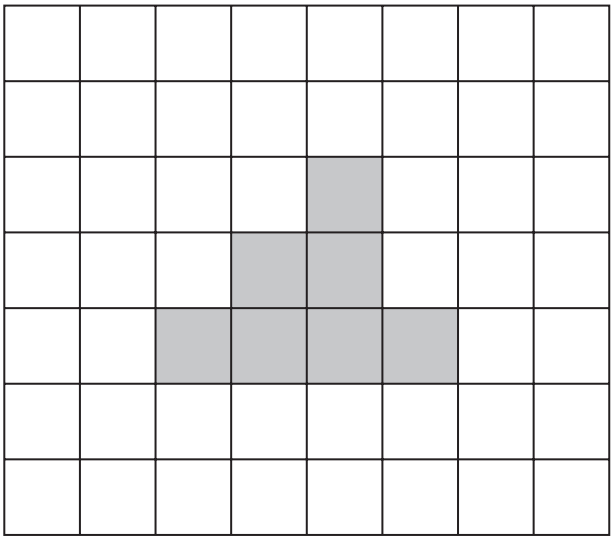
.....

(2)



(c) On the grid above, shade in 3 more squares so that the completed shape has exactly one line of symmetry.

(1)



(d) On this grid, shade in 3 more squares so that the completed shape has rotational symmetry of order 2

(1)

(Total for Question 11 is 6 marks)

17 (a) Work out $\sqrt{44.89}$
You must give your answer as a decimal.

.....

(1)

(b) Work out $\frac{1}{2.5^3}$
You must give your answer as a decimal.

.....

(2)

(Total for Question 17 is 3 marks)

8 There are 8 kg of sand in a container.

The sand is going to be put into bags.

$\frac{3}{4}$ kg of sand will be put into each bag.

(a) How many bags can be filled with sand from the container?

.....

(2)

(b) Write 40 as a fraction of 200

.....

(1)

(Total for Question 8 is 3 marks)

15

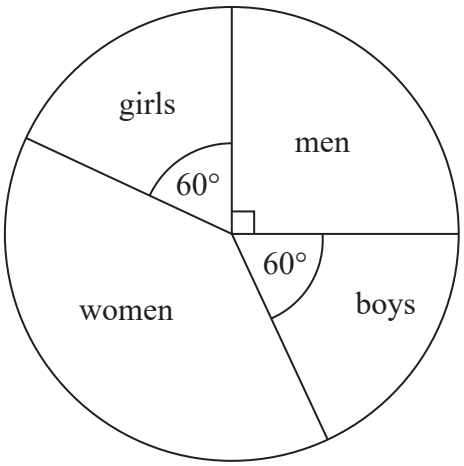


Diagram **NOT** accurately drawn

The pie chart above gives information about the people who went to a shop last week.

(a) What fraction of the people were girls?
Give your answer in its simplest form.

.....

(2)

30 boys went to the shop.

(b) Work out the number of women who went to the shop.

.....

(3)

The pie chart below gives information about the people who went to the same shop this week.

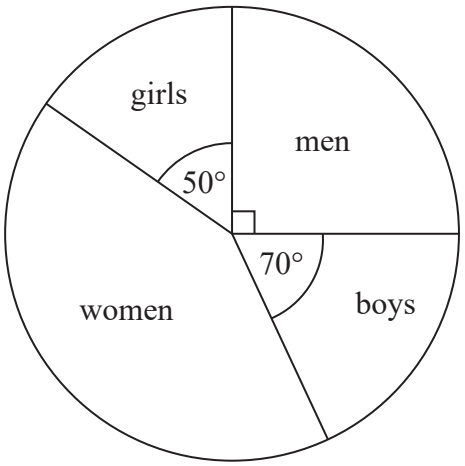


Diagram **NOT** accurately drawn

Laurent says,

"The pie chart shows that more boys went to the shop this week than last week."

(c) Is Laurent correct?
Explain your answer.

.....

.....

(1)

(Total for Question 15 is 6 marks)

Question 39

June 2017 | 1MA1/2F | Original Q4

4 Here are four fractions.

$$\frac{2}{5} \qquad \frac{11}{30} \qquad \frac{1}{2} \qquad \frac{7}{15}$$

Write these fractions in order of size.
Start with the smallest fraction.

.....

(Total for Question 4 is 2 marks)

Question 40

4 $\frac{4}{5}$ of a number is 32

Find the number.

.....

(Total for Question 4 is 2 marks)

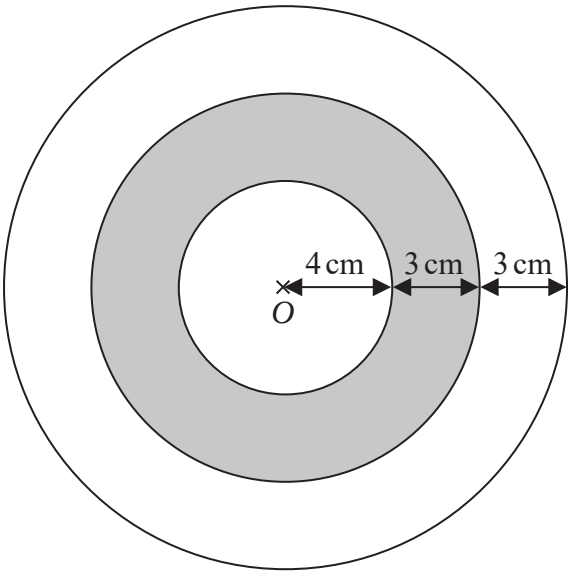
14 Here are two fractions.

$$\frac{7}{5} \qquad \frac{5}{7}$$

Work out which of the fractions is closer to 1
You must show all your working.

(Total for Question 14 is 3 marks)

26 The diagram shows a logo made from three circles.



Each circle has centre O.

Daisy says that exactly $\frac{1}{3}$ of the logo is shaded.

Is Daisy correct?
You must show all your working.

(Total for Question 26 is 4 marks)

Question 43

1 Write $\frac{7}{100}$ as a decimal.

.....

(Total for Question 1 is 1 mark)

5 60 students were asked how they get to school.

The table shows the results.

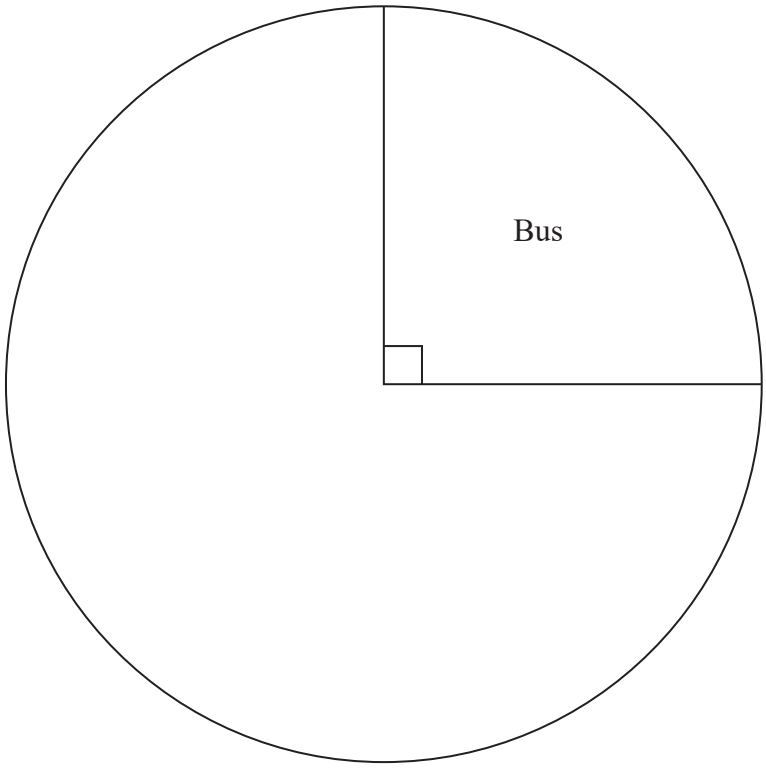
	Bus	Walk	Car	Bicycle
Number of students	15	27	12	6

(a) What fraction of the 60 students did **not** walk to school?

.....

(2)

(b) Complete the pie chart for the information in the table.



(4)

(Total for Question 5 is 6 marks)

6 Annie and Lily share some money in the ratio 4 : 3

(a) What fraction of the money does Lily get?

.....

(1)

Rosie and Dan share some sweets.

Dan gets $\frac{1}{4}$ of the sweets.

(b) Write down the ratio of the number of sweets Rosie gets to the number of sweets Dan gets.

.....

(1)

(Total for Question 6 is 2 marks)

Question 46

23 (a) Find the value of the reciprocal of 1.6
Give your answer as a decimal.

.....

(1)

Jess rounds a number, x, to one decimal place.
The result is 9.8

(b) Write down the error interval for x.

.....

(2)

(Total for Question 23 is 3 marks)

Question 47

June 2018 | 1MA1/1F | Original Q4

4 Here is a list of four fractions.

$$\frac{4}{16} \qquad \frac{2}{8} \qquad \frac{15}{60} \qquad \frac{3}{9}$$

One of these fractions is **not** equivalent to $\frac{1}{4}$

Write down this fraction.

.....

(Total for Question 4 is 1 mark)

19 (a) Work out $2\frac{1}{7} + 1\frac{1}{4}$

.....

(2)

(b) Work out $1\frac{1}{5} \div \frac{3}{4}$

Give your answer as a mixed number in its simplest form.

.....

(2)

(Total for Question 19 is 4 marks)

Question 49

1 Write $\frac{9}{10}$ as a decimal.

.....

(Total for Question 1 is 1 mark)

Question 50

11 Last year the cost of a season ticket for a football club was £560
This year the cost of a season ticket for the club has been increased to £600

Write down the increase in the cost of a season ticket as a fraction of last year's cost.

.....

(Total for Question 11 is 2 marks)

Question 51

11 Here are some fractions.

$$\frac{9}{12} \qquad \frac{6}{8} \qquad \frac{18}{24} \qquad \frac{10}{16} \qquad \frac{15}{20}$$

One of these fractions is **not** equivalent to $\frac{3}{4}$

(a) Which fraction?

.....

(1)

(b) Work out $\frac{1}{12} + \frac{5}{6}$

.....

(2)

(Total for Question 11 is 3 marks)

Question 52

5 Write 0.31 as a fraction.

.....

(Total for Question 5 is 1 mark)

Question 53

November 2018 | 1MA1/2F | Original Q6

6 Here are four fractions.

$$\frac{3}{4} \qquad \frac{5}{7} \qquad \frac{19}{25} \qquad \frac{11}{15}$$

Write the fractions in order of size.
Start with the smallest fraction.

.....

(Total for Question 6 is 2 marks)

Question 54

1 Write a number in each box to make the calculation correct.

(i) $56.3 + \square = 100$

(1)

(ii) $\frac{2}{7} + \square = 1$

(1)

(Total for Question 1 is 2 marks)

Question 55

8 Write the following fractions in order of size.
Start with the smallest fraction.

$$\frac{1}{3} \qquad \frac{3}{4} \qquad \frac{1}{4} \qquad \frac{7}{12} \qquad \frac{1}{2}$$

.....

(Total for Question 8 is 2 marks)

14 (a) Work out $\frac{1}{5}$ of 70

.....

(1)

Fiona has to work out the exact value of $48 \div \frac{1}{2}$

She writes

$$48 \div \frac{1}{2} = 24$$

Fiona's reason is,

"There are 2 halves in 1, so there will be 24 halves in 48"

(b) Explain what is wrong with Fiona's reason.

.....

.....

.....

(1)

(Total for Question 14 is 2 marks)

Question 57

19 (a) Work out $\frac{2}{3} - \frac{1}{5}$

.....

(2)

(b) Work out $\frac{2}{3} \times \frac{3}{4}$

Give your answer as a fraction in its simplest form.

.....

(2)

(Total for Question 19 is 4 marks)

Question 58

1 Write 0.75 as a fraction.

.....

(Total for Question 1 is 1 mark)

Question 59

10 Bill has 400 counters in a bag.

He gives
35 of the counters to Sameena
50 of the counters to Henry
75 of the counters to Lucas

What fraction of the 400 counters is left in Bill's bag?
Give your fraction in its simplest form.

.....

(Total for Question 10 is 3 marks)

Question 60

12 Ali, Ben and Cathy share an amount of money in the ratio 6 : 9 : 10

What fraction of the money does Ben get?

.....

(Total for Question 12 is 2 marks)

Question 61

14 Find the value of $\dfrac{5.27 + 3.5}{7.9 - 4.36}$

Give your answer as a decimal.
Write down all the figures on your calculator display.

.....

(Total for Question 14 is 2 marks)

Question 62

4 Write the fraction $\frac{28}{70}$ in its simplest form.

.....

(Total for Question 4 is 1 mark)

Question 63

22 Work out $1\frac{3}{4} \times 1\frac{1}{3}$

Give your answer as a mixed number.

.....

(Total for Question 22 is 3 marks)

Question 64

7 Harry has 20 sweets.
He gives 7 of the sweets to Nadia.

What fraction of the 20 sweets does Harry have now?

.....

(Total for Question 7 is 2 marks)

Question 65

12 Find the number that is exactly halfway between $\frac{1}{10}$ and $\frac{3}{5}$

.....

(Total for Question 12 is 2 marks)

Question 66

November 2019 | 1MA1/3F | Original Q2

2 Find $\frac{1}{3}$ of 30

.....

(Total for Question 2 is 1 mark)

Question 67

3 Write 0.7 as a fraction.

.....

(Total for Question 3 is 1 mark)

Question 68

4 Write $\frac{3}{4}$ as a decimal.

.....

(Total for Question 4 is 1 mark)

Question 69

9 (a) A bag contains red counters and blue counters only.

number of red counters : number of blue counters = 3 : 4

Write down the fraction of the counters that are red.

.....

(1)

(b) Write the ratio 12 : 30 in the form 1 : n

.....

(2)

(Total for Question 9 is 3 marks)

10 Jenny has 12 marbles.

$\frac{1}{4}$ of these 12 marbles are large.

The rest of these 12 marbles are small.

Each large marble has a weight of 70 grams.
Each small marble has a weight of 50 grams.

Work out the total weight of the 12 marbles.

..... grams

(Total for Question 10 is 4 marks)

Question 71

21 Show that $2\frac{1}{3} \times 3\frac{3}{4} = 8\frac{3}{4}$

(Total for Question 21 is 3 marks)

Question 72

1 Write 0.37 as a fraction.

.....

(Total for Question 1 is 1 mark)

Question 73

19 Adam, Linda and Rytis share an amount of money.

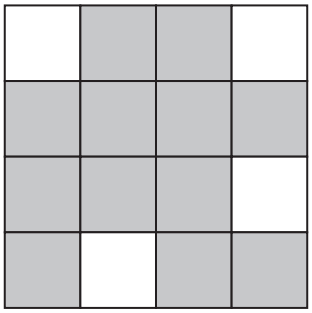
Linda gets three times as much money as Rytis gets.
Linda gets half as much money as Adam gets.

What fraction of the amount of money does Linda get?

.....

(Total for Question 19 is 2 marks)

7



What fraction of the shape is shaded?
Give your answer in its simplest form.

.....

(Total for Question 7 is 2 marks)

Question 75

3 Write $\frac{9}{100}$ as a decimal.

.....

(Total for Question 3 is 1 mark)

Question 76

22 Work out $4\frac{1}{5} - 2\frac{2}{3}$

Give your answer as a mixed number.

.....

(Total for Question 22 is 3 marks)

Question 77

10 Write 17 as a fraction of 30

.....

(Total for Question 10 is 1 mark)

Question 78

November 2021 | 1MA1/2F | Original Q15

15 Write the following fractions in order of size.
Start with the smallest fraction.

$\frac{5}{8}$ $\frac{2}{3}$ $\frac{4}{9}$ $\frac{3}{5}$

.....

(Total for Question 15 is 2 marks)

12 (a) Work out $\frac{5}{12} + \frac{1}{6}$

.....

(2)

(b) Work out $\frac{3}{10} \times \frac{5}{8}$

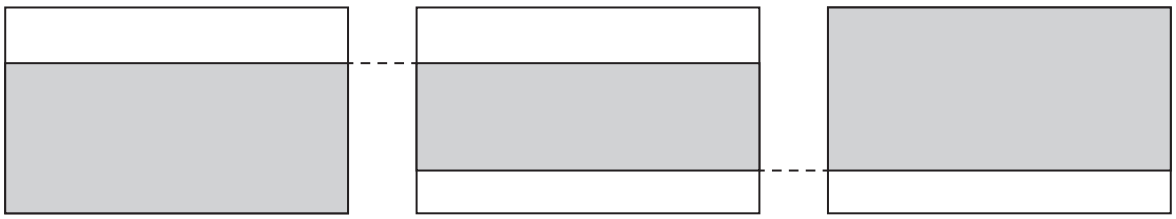
Give your answer as a fraction in its simplest form.

.....

(2)

(Total for Question 12 is 4 marks)

20 The diagram shows three identical rectangles **A**, **B** and **C**.



Rectangle **A** Rectangle **B** Rectangle **C**

$\frac{5}{8}$ of rectangle **A** is shaded.

$\frac{9}{11}$ of rectangle **C** is shaded.

Work out the fraction of rectangle **B** that is shaded.

.....

(Total for Question 20 is 3 marks)

Question 81

June 2022 | 1MA1/2F | Original Q2

2 Write a fraction in the box to make the calculation correct.

$$1 - \frac{3}{10} = \boxed{\quad\quad}$$

(Total for Question 2 is 1 mark)

14 The box below contains three mathematical symbols.

=	<	>

From the box, choose a symbol to make each of the following statements correct.

(i) $\frac{5}{8}$ ..... $\frac{2}{8}$

(1)

(ii) -2×-3 ..... $-3 + 9$

(1)

(Total for Question 14 is 2 marks)

Question 83

June 2022 | 1MA1/3F | Original Q12

12 Write 60 metres as a fraction of 1000 metres.
Give your answer in its simplest form.

.....

(Total for Question 12 is 2 marks)

Question 84

1 Write 0.3 as a fraction.

.....

(Total for Question 1 is 1 mark)

20 (a) Work out $1\frac{3}{5} + 2\frac{1}{4}$

Give your answer as a mixed number.

.....

(2)

(b) Show that $2\frac{2}{3} \div 6 = \frac{4}{9}$

(2)

(Total for Question 20 is 4 marks)

24 Rizwan writes down three numbers a, b and c

$$a : b = 1 : 3$$
$$b : c = 6 : 5$$

(a) (i) Find $a : b : c$

.....

(2)

(ii) Express a as a fraction of the total of the three numbers a, b and c

.....

(2)

Emma writes down three numbers m, n and p

$$n = 2m$$
$$p = 5n$$

(b) Find $m : p$

.....

(2)

(Total for Question 24 is 6 marks)

12 (a) Work out $\frac{5}{8}$ of 132

.....

(2)

(b) Write the following fractions in order of size.
Start with the smallest fraction.

$\frac{3}{8}$ $\frac{9}{32}$ $\frac{1}{4}$ $\frac{21}{64}$

.....

(2)

(Total for Question 12 is 4 marks)

3 Write $\frac{4}{5}$ as a decimal.

.....

(Total for Question 3 is 1 mark)

Question 89

17 (a) Write 87 569 correct to 3 significant figures.

.....

(1)

(b) Work out $\dfrac{(3.2 + 3.7) \times 4.9}{5.3 - 2.8}$

Give your answer as a decimal.

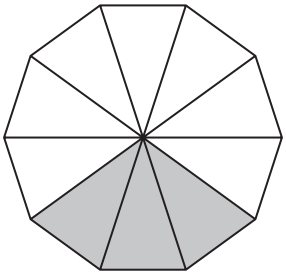
.....

(2)

(Total for Question 17 is 3 marks)

Question 90

2 What fraction of this shape is shaded?



.....

(Total for Question 2 is 1 mark)

Question 91

15 Work out $\frac{6}{7} \times \frac{5}{12}$

Give your answer as a fraction in its simplest form.

.....

(Total for Question 15 is 2 marks)

Question 92

21 Work out $7\frac{3}{8} - 2\frac{1}{2}$

Give your answer as a mixed number.

.....

(Total for Question 21 is 3 marks)

2 Write 0.7 as a fraction.

.....

(Total for Question 2 is 1 mark)

17 Work out $\frac{3}{5} \div \frac{1}{6}$

Give your answer as a mixed number.

.....

(Total for Question 17 is 3 marks)

Question 95

2 Write 0.9 as a fraction.

.....

(Total for Question 2 is 1 mark)

18 (a) Work out $\dfrac{9.8 + 6.8}{4.2 \times 2.1}$

Give your answer as a decimal.
Write down all the figures on your calculator display.

.....

(2)

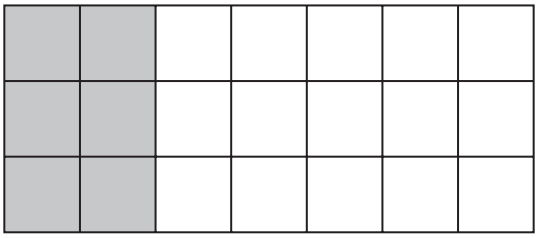
(b) Write your answer to part (a) correct to 2 decimal places.

.....

(1)

(Total for Question 18 is 3 marks)

4 Here is a grid of squares.



What fraction of the grid is shaded?

.....

(Total for Question 4 is 1 mark)

Question 98

11 There are only red counters, blue counters and green counters in a bag.

number of red counters : number of blue counters : number of green counters = 2 : 16 : 7

What fraction of the counters in the bag are green counters?

.....

(Total for Question 11 is 2 marks)

Question 99

3 Write $\frac{31}{100}$ as a decimal.

.....

(Total for Question 3 is 1 mark)

5 Write the following fractions in order of size.
Start with the smallest fraction.

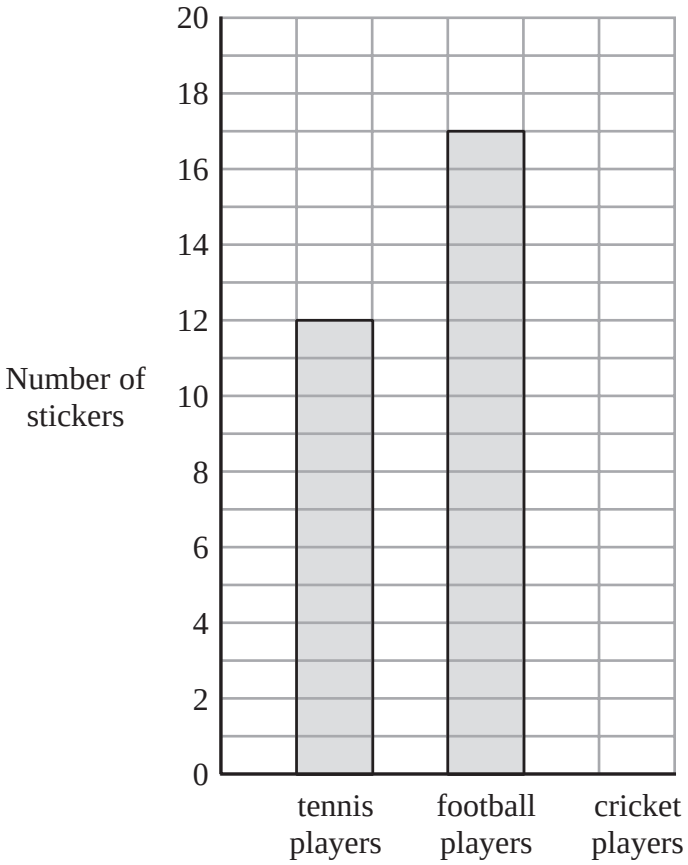
$\frac{1}{2}$ $\frac{2}{3}$ $\frac{1}{4}$

.....

(Total for Question 5 is 1 mark)

9 Milly collects stickers of sports players.
She only has stickers of tennis players, football players and cricket players.

The incomplete bar chart shows some information about the number of stickers Milly has.



Milly has a total of 40 stickers.

(a) Complete the bar chart.

(3)

(b) What fraction of the 40 stickers are stickers of tennis players?
Give your fraction in its simplest form.

.....

(2)

Ewan also collects stickers.
He only has large stickers and small stickers.

For Ewan's stickers,

the number of large stickers : the number of small stickers = 5 : 4

(c) Write down the fraction of Ewan's stickers that are large stickers.

.....

(1)

(d) Write the ratio 5 : 4 in the form $n : 1$

.....

(1)

(Total for Question 9 is 7 marks)

20 (a) Work out $3\frac{1}{2} - 1\frac{1}{6}$

Give your answer as a mixed number.

.....

(2)

(b) Show that $5\frac{1}{4} \div 2\frac{1}{3} = 2\frac{1}{4}$

(3)

(Total for Question 20 is 5 marks)

Question 103

2 Write $\frac{3}{4}$ as a decimal.

.....

(Total for Question 2 is 1 mark)

4 Here are some fractions.

$$\frac{3}{9} \quad \frac{6}{18} \quad \frac{2}{6} \quad \frac{4}{10} \quad \frac{5}{15}$$

Which one of these fractions is **not** equivalent to $\frac{1}{3}$?

.....

(Total for Question 4 is 1 mark)

20 (a) Use your calculator to work out the value of

$$\frac{42.1 - 29.53}{9.82 + 37.6}$$

Give your answer as a decimal.
Write down all the figures on your calculator display.

.....

(2)

(b) Write your answer to part (a) correct to 2 significant figures.

.....

(1)

(Total for Question 20 is 3 marks)