

Please make sure that you print this resource at 100% so that all measurements are correct.
To do this, follow the relevant steps below.

Adobe Reader or Adobe Acrobat

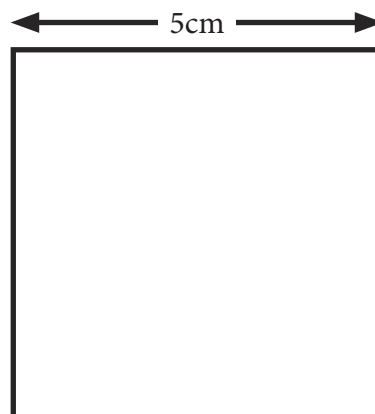
- Adobe Reader is a free PDF viewer, from Adobe. To install a copy of Adobe Reader, go to <https://get.adobe.com/uk/reader/>.
- Once Adobe Reader is installed, open your PDF.
- Go to File>Print.
- Under 'Page Sizing & Handling', select 'Size'.
- From here, make sure that 'Actual Size' is selected.
- Print this page as a test, making sure that the shape below is the correct size once printed.
- If the test print is correct, print your PDF.

Foxit Reader

- Go to File>Print.
- Set the 'Scaling' to 'None'.
- Print this page as a test, making sure that the shape below is the correct size once printed.
- If the test print is correct, print your PDF.

Web Browser

- If printing from a web browser, such as Chrome, Firefox or Microsoft Edge make sure that your printer is set to print at 100%, either by unticking 'Fit to Page' or selecting 'Actual Size'.
- Print this page as a test, making sure that the shape below is the correct size once printed.
- If the test print is correct, print your PDF.



Name:

Date:


35
total marks

Year 5 Reasoning Test Set 3 Paper B

1. a) What number is 10 more than 192?

1 mark

b) Write the number that is 100 less than 1004.

1 mark

.....

2. Write $\frac{509}{1000}$ as a decimal fraction.

1 mark

.....

3. a) Use the grid to illustrate two equivalent fractions.

1 mark

b) Write the two equivalent fractions you have illustrated.

1 mark

.....

total for this page

4. Write the 2 missing digits to make this subtraction correct:

$$\begin{array}{r}
 6 \square 19 \\
 - 362\square \\
 \hline
 2391
 \end{array}$$

1 mark

5. Ring the numbers with 4 in the ten thousand place.

3 465 927 5 045 718 6 714 352 8 745 829 2 917 643

1 mark

6. A museum in Sheffield has the following opening times:

Monday	Closed
Tuesday	11a.m. – 4p.m.
Wednesday	1p.m. – 6p.m.
Thursday – Sunday	11a.m. – 4p.m.

a) How many hours is the museum open each week?

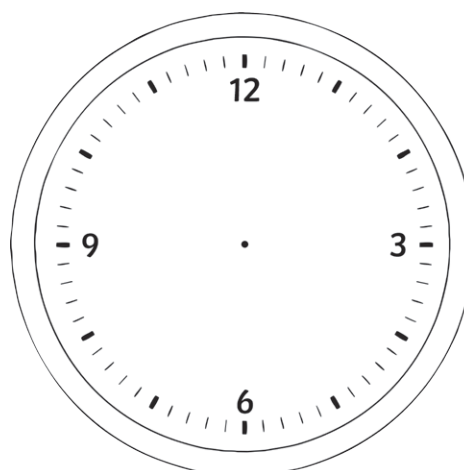
1 mark

b) Asif and Jenna arrive at the museum at 11:40a.m. but the museum is closed. Which day of week could it be?

1 mark

total for
this page

7. Here is a digital and an analogue clock. Draw the hands on the analogue clock to match the time on the digital clock.



1 mark

8. a) Nicola rounds the number 24 575 to the nearest 10, 100 and 1000. Match the following statements to the correct number.

rounded to the nearest 10

25 000

rounded to the nearest 100

24 580

rounded to the nearest 1000

24 600

1 mark

- b) Noah has some money in his pocket. He correctly states that he has £2.80 rounded to the nearest ten pence. What is the smallest amount he could have in his pocket

£ _____

1 mark

total for this page

9. Calculate

$561 \times 1 = \underline{\hspace{2cm}}$

$561 \div 1 = \underline{\hspace{2cm}}$

$561 \times 0 = \underline{\hspace{2cm}}$

1 mark

10. Write the 2 missing digits to make this multiplication correct:

$$\begin{array}{r} 5 \square 9 \\ \times \quad \square \\ \hline 3 \ 1 \ 7 \ 4 \end{array}$$

2 marks

11. Match these calculations to the correct answer:

$27 \div 10 =$

$27 \div 100 =$

•

•

•

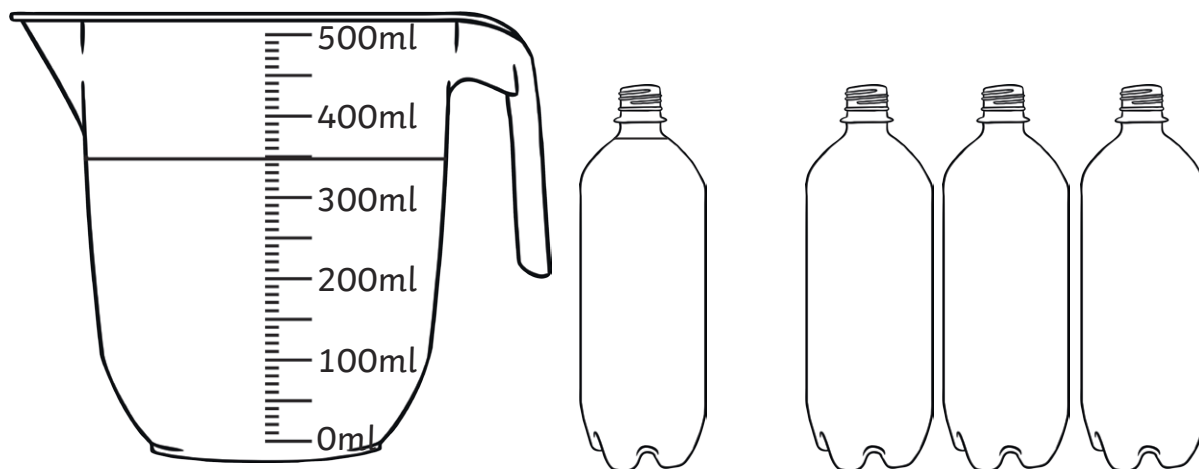
1 mark

total for
this page

A

2 marks

13. Noah has a half-litre jug of water. He pours some of the water into a water bottle. The jug shows how much water is left after filling one bottle.



How many other bottles can be filled from the remaining water?

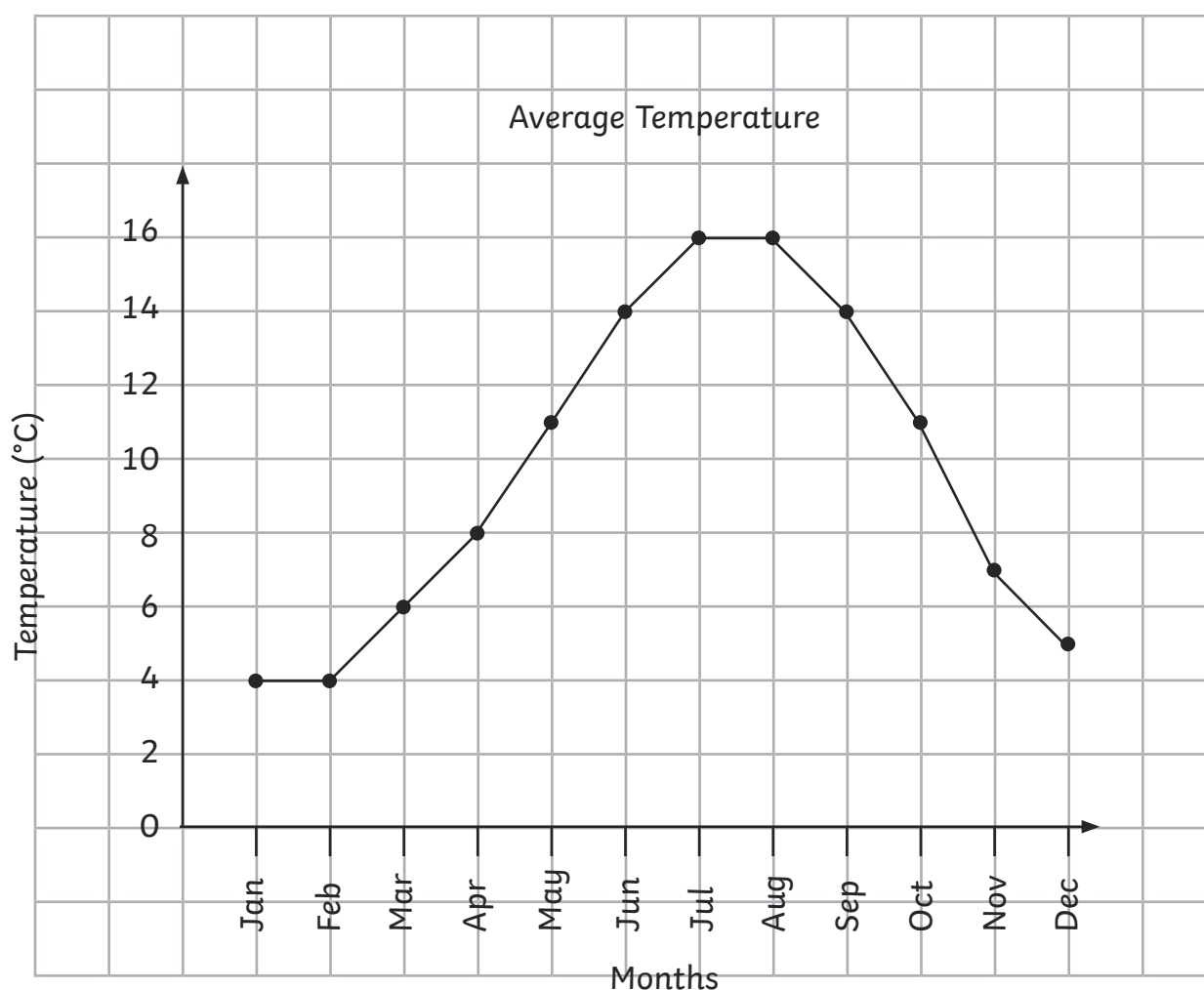
[illegible]

total for
this page

30ml water

A blank grid of 16 columns and 8 rows. The grid is composed of small squares. A thick black border is present on the left and bottom edges. Additionally, a thick black border is present on the right edge of the last two rows (rows 7 and 8).

15. Here is a graph showing the average temperature in each month.



a) What is the difference between the highest average temperature and the lowest average temperature?

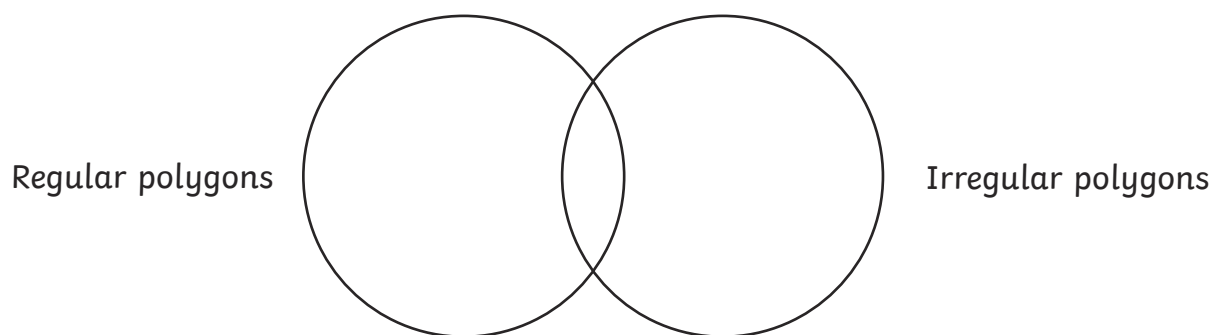
b) Between which months is the greatest change in average temperature?

_____ and _____

1 mark

total for
this page

16. Here is a Venn diagram.



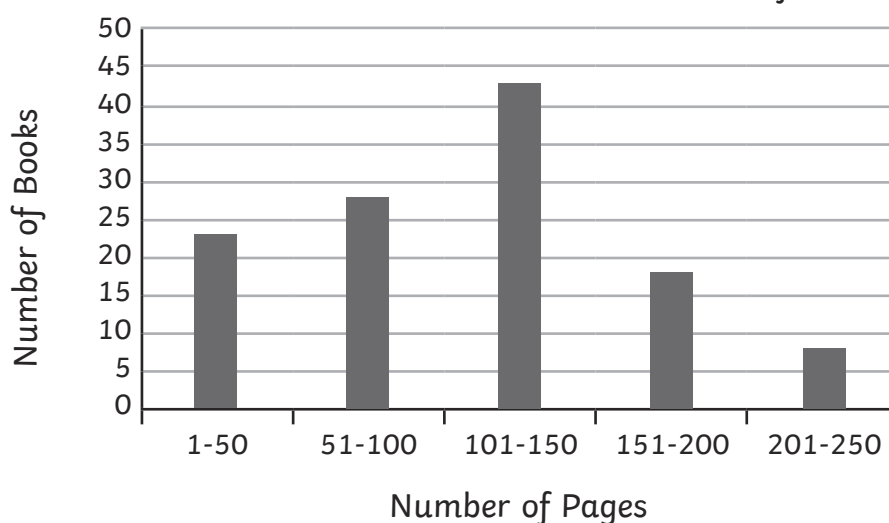
Explain why there will be no shapes in the intersection of the 2 sets.

17. What number is half way between 3.567 and 4.019?

[illegible]

18. Some children looked at the number of pages in each book on the classroom bookshelves and recorded their findings in a bar chart.

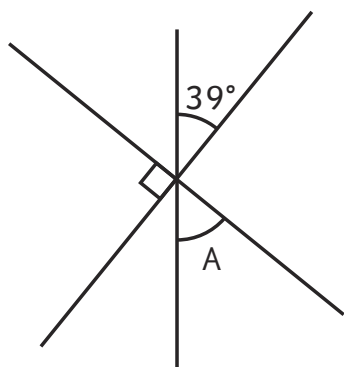
A bar chart to show the number of pages in books on the classroom bookshelf



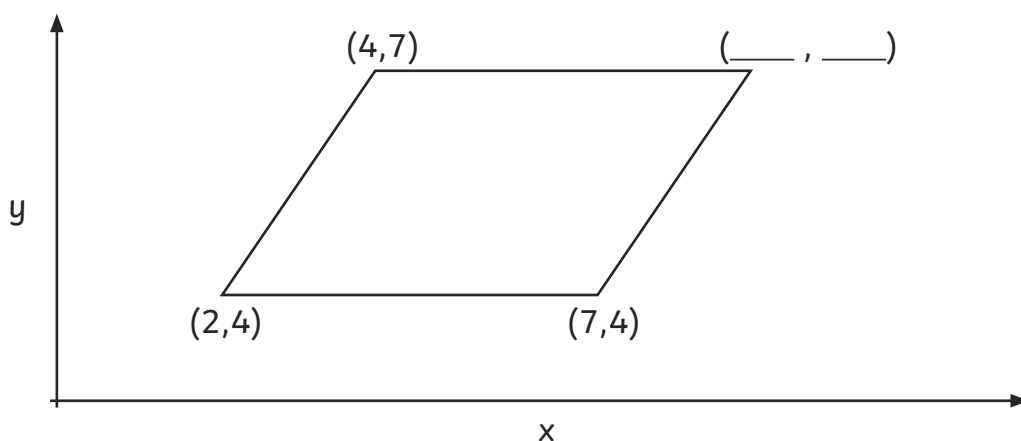
a) How many books had 100 pages or less? _____

b) Noah said that less than one quarter of the books had more than 150 pages. Explain why Noah is correct.

19. Calculate the size of angle A.

[illegible]

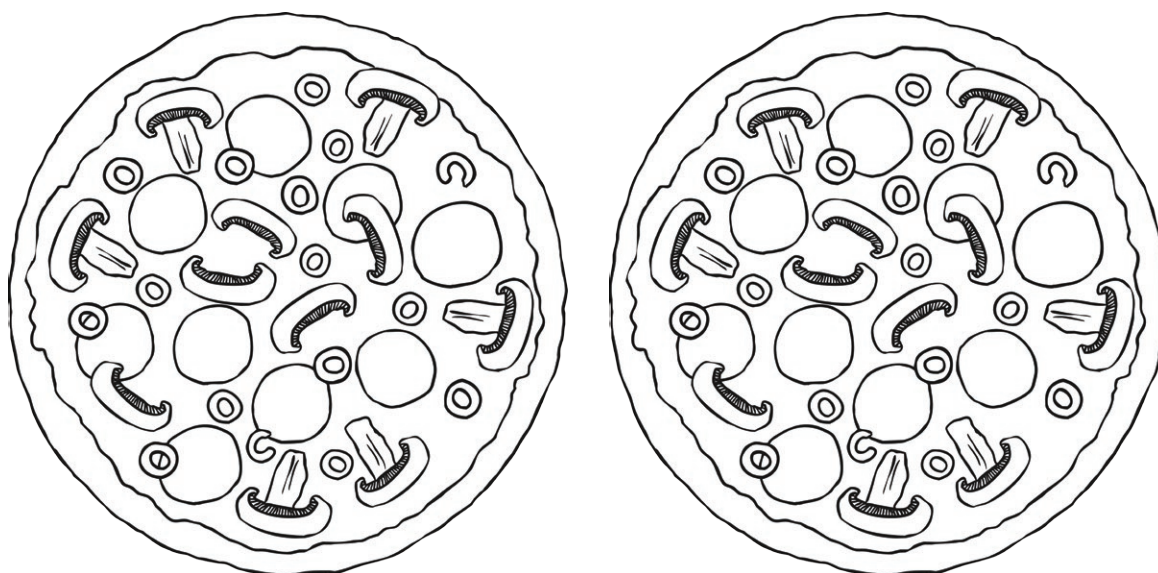
20. Write the missing coordinate of this parallelogram.



1 mark

21. Asif and Jenna each have a pizza.

2 marks



Asif eats $\frac{4}{5}$ of his pizza, and Jenna eats 75% of hers.

Explain why Jenna has more pizza left over.

END OF TEST

total for
this page