## testbase

# Year 5 Mid-year Reasoning: Test B

Name	
Class	
Date	

Arithmetic Y5

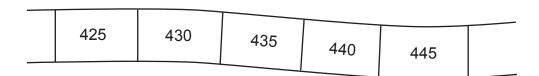


1. Circle the **two** fractions that are less than  $\frac{1}{2}$ 

$$\frac{7}{10}$$

1 mark

2. Here is part of a number sequence. The numbers increase by the same amount each time.



The sequence continues.

Circle **all** of the numbers below that would appear in the sequence.

750

815

999

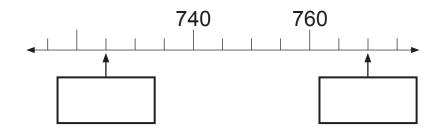
1,005

2,552



**3.** Here is part of a number line.

Write the two missing numbers in the boxes.



1 mark

1 mark

4. Circle **three** numbers that add to make a **multiple** of **10** 

21

22

23

24

25

26

27

28

1 mark

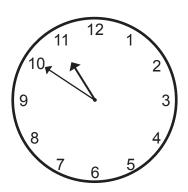
29



**5.** Write in the missing number.

1 mark

**6.** Playtime starts at



It finishes at 11:15

How many minutes long is playtime?

minutes



7. Match each fraction to the percentage which has the same value.

80%

 $\frac{1}{2}$ 

50%

<u>2</u> 5

10%

3 10 20%

<u>20</u> 25 30%

40%

8.



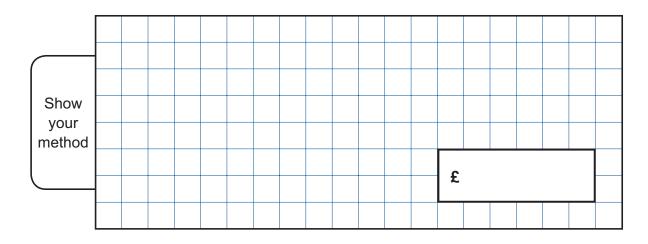
Holly, Jason and Mia take part in a sponsored run to collect money for charity.

Holly collects £2 more than Mia.

Jason collects £23

Mia collects £6 less than Jason.

Altogether how much money do the three children collect?





9. It is estimated that the population of a town will increase by **10,000** every year.

In 2015 the population of the town was 236,000

What will the population of the town be in **2021**?



1 mark

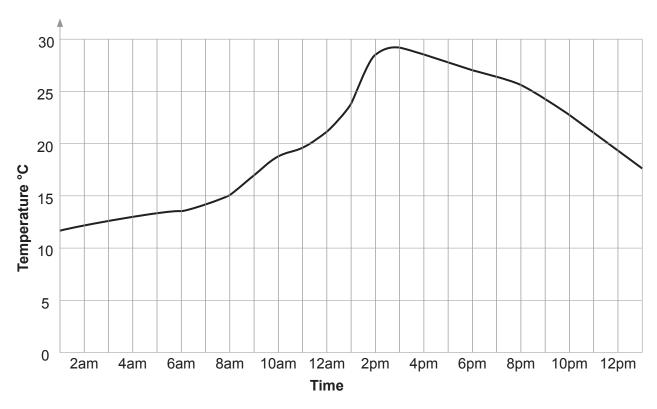
**10.** Complete the equivalent fractions.

$$\frac{\boxed{\phantom{0}}}{6} = \frac{2}{3} = \frac{6}{\boxed{\phantom{0}}}$$

1 mark



**11.** The line graph below shows the temperature on the hottest day of the year in 1994.

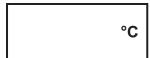


What was the temperature at 4 am?



1 mark

How much did the temperature increase between 2 am and 2 pm?





**12.** Use the table to work out the approximate equivalents.

1 inch is about 2.5 cm

1 pint is about 570 ml

1 pound is about 450 g

Circle the correct answers.

#### 10 inches is about...

2.5 mm 25 mm 250 mm 2500 mm

## 10 pints is about...

5.7 litres 57 litres 57 ml 5.7 ml

### 10 pounds is about...

 $0.45 \,\mathrm{kg}$   $4.5 \,\mathrm{kg}$   $450 \,\mathrm{kg}$ 

2 marks

13. A family eats  $\frac{3}{5}$  of a loaf of bread every day.

How many loaves of bread will they eat in 10 days?

loaves

**14.** Write these numbers in order, starting with the **smallest**.

5.1

5

5.4

5.14

5.04

smallest







	- 1			
	- 1	1		
1	- 1	1		
	- 1	1		
1	- 1	1		
1	- 1	1		
1	- 1	1		
1	- 1	ı		

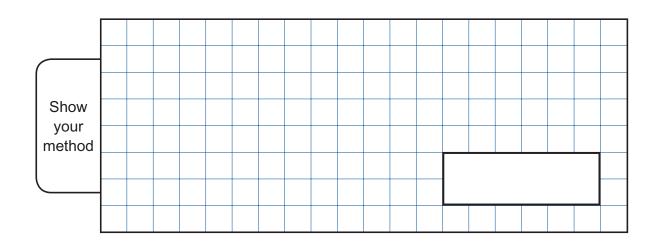
1 mark

**15.** Jason collects **20p** coins.

Holly collects **5p** coins.

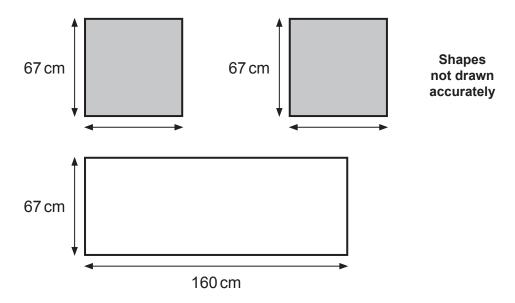
They have each collected £6

How many **more** coins does Holly have than Jason?

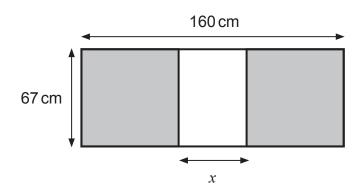




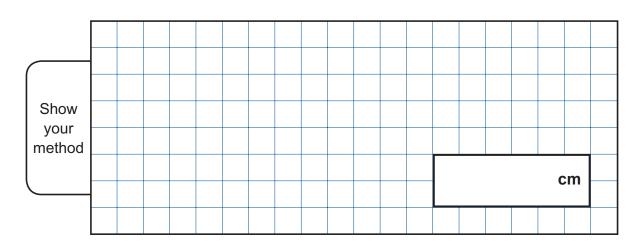
**16.** Mia has two identical squares and a rectangle.



She puts the two squares on top of the rectangle.



What is the length of x?





17. Circle the decimal that equals  $\frac{38}{1000}$ 

0.00038

0.0038

0.38000

0.038

0.38

1 mark

**18.** Holly, Jason and Mia play two games.

Winning game A is worth 50 points.

Winning game B is worth **100** points.

The table shows the points they have.

Complete the table for Jason and Mia.

Player	Number of wins		Total points
	Game A	Game B	Total points
Holly	2	1	200
Jason	5	4	
Mia		5	950



**19.** Write the missing numbers to make the calculations correct.

$$\frac{2}{5} + \frac{2}{10} = \frac{4}{5}$$

1 mark

$$\frac{1}{4} + \frac{2}{8} = \frac{7}{8}$$

1 mark

20. Jason drinks 320 ml of milk every day.

How many litres of milk does he drink in 7 days?

litres

1 mark

21. Three different numbers add up to 100All the numbers are greater than 30Two of the numbers are odd.

Write what the three numbers could be.





22. 
$$17 \times 19 = 323$$

Use the fact above to find the missing numbers below.

2 marks

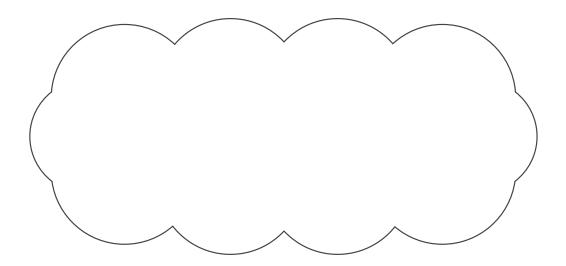
23. Holly has this star.



All the sides of her star are the same length.

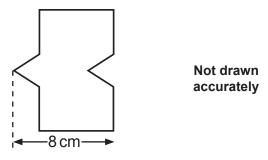
Holly says, 'my star is a regular shape.'

Holly is **not** correct. Explain how you know.

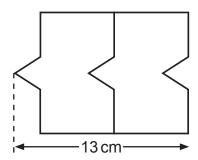




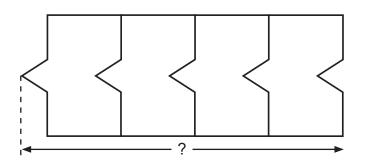
#### **24.** Mia has some tiles.



Each tile is 8 cm long.



Two tiles fitted together are 13 cm long.



Calculate the length of **four** tiles fitted together.

