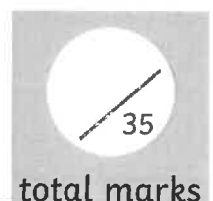


Key stage 2

Mathematics

Reasoning: Set 1 Paper A

Name	
Date	



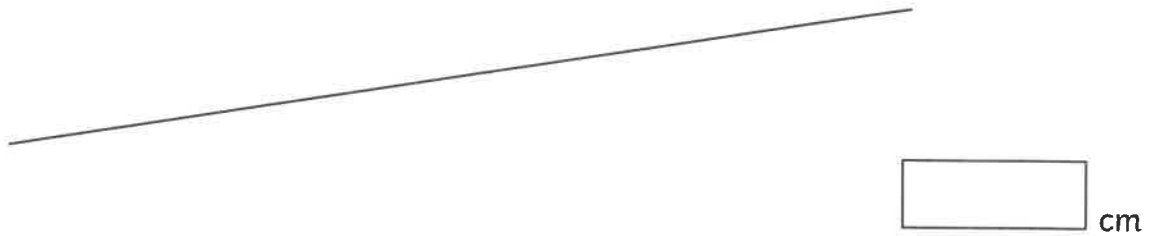
Name:

Date:

35
total marks

Year 5 Maths Reasoning Test Set: Paper A

1. a) Measure the following line, giving the answer in cm.




1 mark






b) Measure the following line giving the answer in mm.



1 mark

2. Some children count the number of vehicles that pass a school in one hour. They present the data using a pictogram.

 = 4 vehicles

Motorbike	
Car	
Lorry	
Van	
Bus	

total for this page

5. Complete these sequences

a)

		84	91	98	105
--	--	----	----	----	-----

b)

375		425	450		500
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1 mark

1 mark

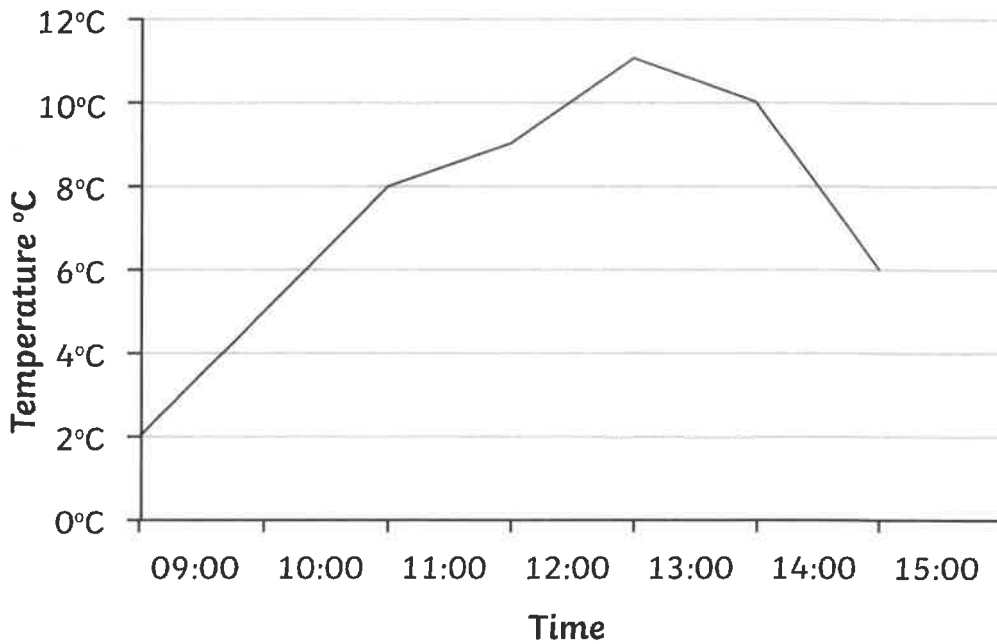
6. Fill in the missing numbers to make this subtraction calculation correct.

$$\begin{array}{r}
 \square \quad 4 \quad \square \quad 7 \\
 - \quad 4 \quad \square \quad 5 \quad \square \\
 \hline
 3 \quad 6 \quad 6 \quad 4
 \end{array}$$

2 marks

7. Layla records the temperature in the playground every hour during the school day.

Here are the results:



total for this page

a) What is the highest temperature recorded?

1 mark

b) The temperature is 8°C twice in the day. Estimate how many minutes between these two times.

2 marks

8. A scientist collects three samples of soil. They weigh 45 kg, 32 kg and 114 kg. The samples are combined and then divided into 100 packs of equal weight for testing the growth of a plant. What weight will each pack weigh? Give your answer in kilograms.

2 marks

9. Two of these calculations give the same answer. Circle the calculation that gives a different answer to the other two.

$\frac{2}{3}$ of 48

$\frac{5}{8}$ of 48

$\frac{5}{6}$ of 36

1 mark

total for this page

10. At the end of the credits of 2 television programmes are the years the programmes were produced. Here are the years.

MCMXCIV

MMXVI

How many years are there between the production of each programme?

2 marks

11. 26 243 spectators attended a football match. A local newspaper reported that the attendance was twenty-six thousand. To what was the attendance rounded? Circle the correct answer.

10

100

1000

10 000

1 mark

12. Order the following fractions from smallest to largest:

$\frac{7}{8}$

$\frac{3}{4}$

$\frac{1}{2}$

$\frac{5}{8}$

$\frac{9}{16}$

smallest

largest

--	--	--	--	--

1 mark

13. Circle the numbers that are factors of both 32 and 48.

2

3

4

5

6

7

8

10

12

15

16

1 mark

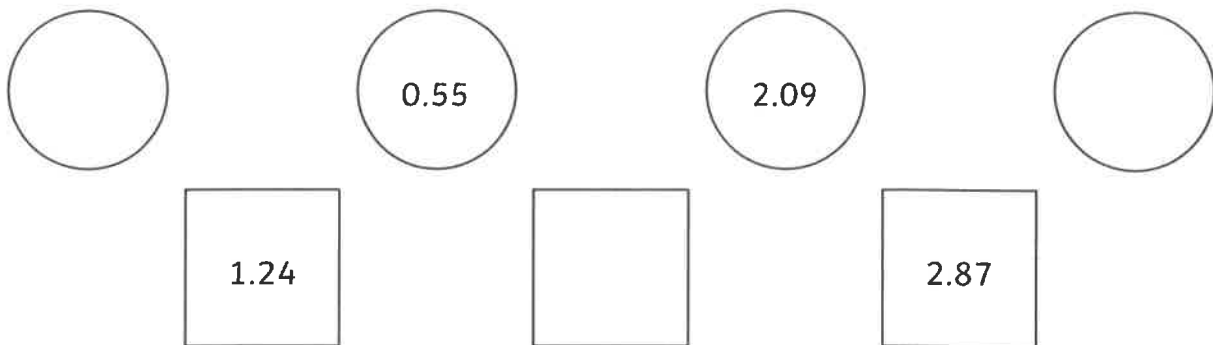
total for this page

14. A school buys 16 digital cameras. Each camera costs £146.
What is the total cost of the 16 cameras?

2 marks

15. Each number in a square is the total of the two adjoining numbers in circles.
Calculate the three missing numbers:

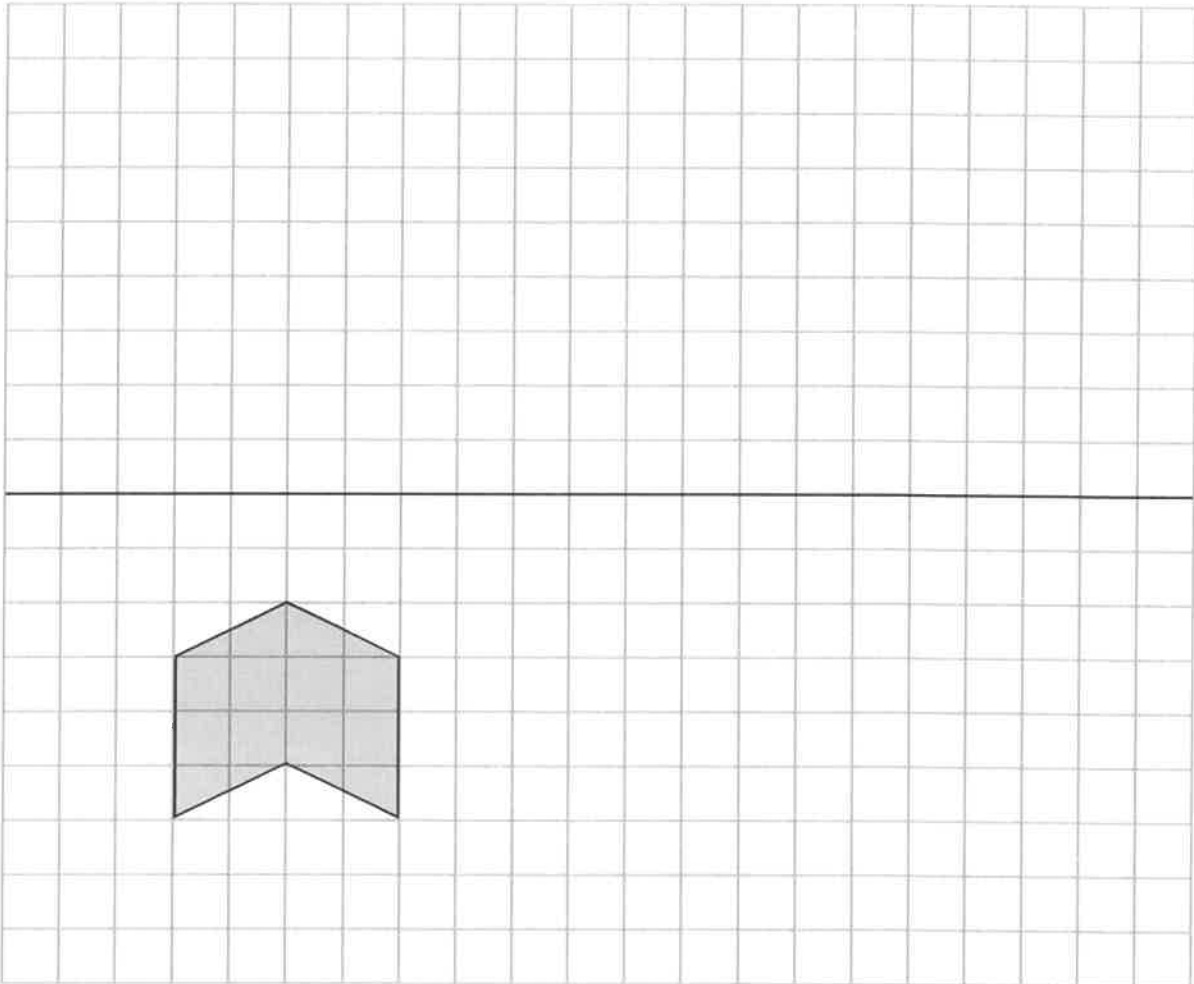
2 marks



total for this page

16. Here is a shape on a grid.
a) Reflect the shape about the solid horizontal line.

1 mark



- b) Translate the new shape 8 places to the right.

1 mark

total for
this page

17. Anna and Shen each have a bottle of water.
 Anna has a 500ml bottle and drinks half of the bottle.
 Shen has a 330ml bottle and drinks three quarters of the bottle.
 Explain why Anna drinks more than Shen.

2 marks

18. Complete the following, writing each number as a percentage, fraction and decimal:

1 mark

a) $45\% = \frac{\quad}{100} = 0.\quad$

b) $\% = \frac{78}{100} = 0.\quad$

1 mark

19. Using the line on the page, draw accurately an angle of 116° .

1 mark



total for this page

