

ISEB Assessments Year 5 Maths Test 1

Author: ISEB



This test contains a selected set of 10 questions in a particular topic order.

- 100 marks are available in total.
- You should take no more than 1 hour to complete the test.
- Write your answers in the spaces provided.
- Always write down your working, except when you are told not to.
- Calculators are not allowed.

SAMPLE

NOTE TO TEACHERS

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Year 5 Maths Test 1

1. (a) At a charity event, three teams raised the following amounts:

TEAM A	TEAM B	TEAM C
£405.35	£1000	£249.50

(i) Write these amounts of money in size, from smallest to largest.

Answer: £ , £ , £ (2)

(ii) How much money was raised altogether?

Answer: £ (3)

(iii) What is the difference between the largest amount of money raised and the smallest?

Answer: £ (2)

(b) Basil's calculator displayed

498.2674

(i) Write this number correct to **one** decimal place.

Answer: (1)

(ii) Write the displayed number to the nearest whole number.

Answer: (1)

(iii) Write the displayed number to the nearest hundred.

Answer: (1)

2. (a) This picture shows part of a game board.

	18	19	20
14	13	12	11
7	8	9	10

Choose from these numbers an example of:

(i) a prime number

Answer: (1)

(ii) a cube number

Answer: (1)

(iii) a square number

Answer: (1)

(iv) a factor of 100

Answer: (1)

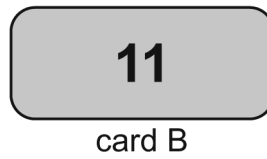
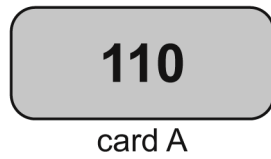
(v) a multiple of 6

Answer: (1)

Turn over to the next page for question 2(b)

Year 5 Maths Test 1

(b) Look at the two number cards below.



(i) Write down two factors of the number written on card A.

Answer: and (2)

(ii) By which number must you multiply the number on card B to get the number on card A?

Answer: (1)

(iii) What is the difference between the numbers on the two cards?

Answer: (2)

SAMPLE

3. (a) Calculate the following:

(i) $21.34 + 6.5$

Answer: (1)

(ii) $45 - 7.69$

Answer: (2)

(iii) $20.52 \div 6$

Answer: (2)

(iv) 2.9×1000

Answer: (2)

(b) Seven people go out for a meal and agree to share the cost equally.

The bill comes to £85.40

(i) How much must each person pay?

Answer: £ (1)

(ii) Anna pays for herself and two friends.

How much does she pay altogether?

Answer: £ (2)

4. (a) The following values of stamps are available:



The postage cost for a parcel is 82 pence.

(i) Which four **different** stamps can I buy to make my 82 pence?

Answer: p p p p (2)

(ii) Write another way of making 82 pence which uses the **fewest** number of stamps.

(They do not all have to be different this time.)

Answer: (2)

(b) Ayshea bought a bag of chestnuts.

There were 24 chestnuts in the bag.



(i) She gave 50% of the chestnuts to her brother.

How many chestnuts did she give to her brother?

Answer: chestnuts (2)

(ii) She gave $\frac{1}{3}$ of the remaining chestnuts to her mother.

How many chestnuts did her mother receive?

Answer: chestnuts (2)

(iii) What fraction of the original number of chestnuts is left in the bag?

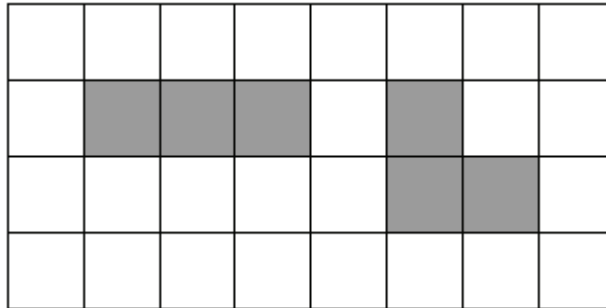
Answer: (2)

Year 5 Maths Test 1

5. Using only three squares, there are just two ways of joining them edge to edge to make a different shape.

These are shown below.

Note: Congruent shapes are not counted as different shapes.

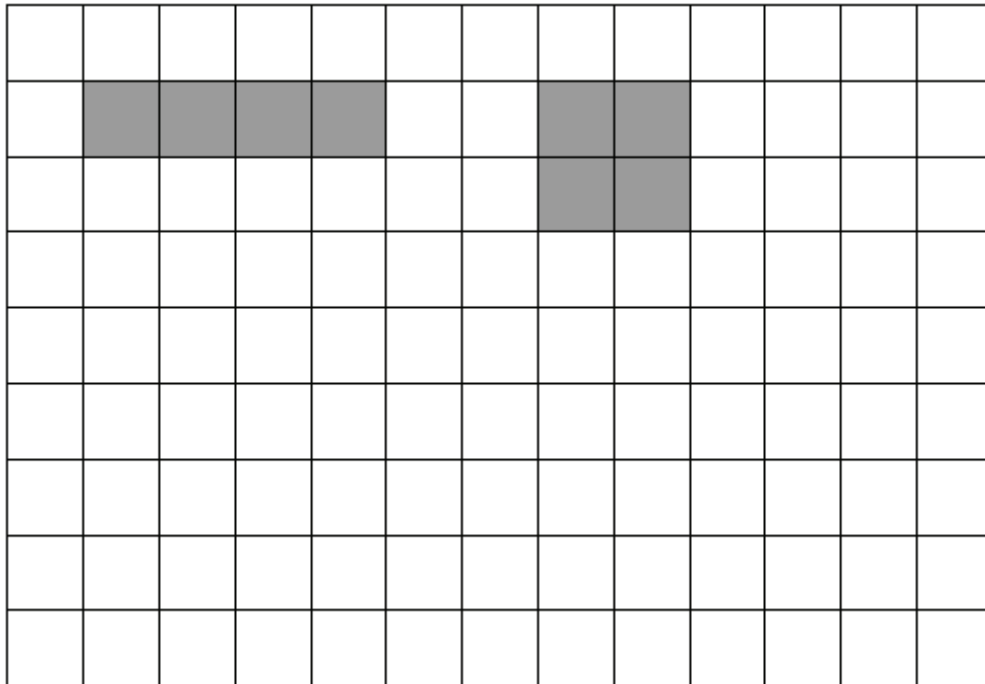


- (i) Using four squares only, there are five different shapes which can be made by joining the shapes edge to edge.

Two of these shapes are shown on the squared grid below.

Draw the other three shapes.

(3)

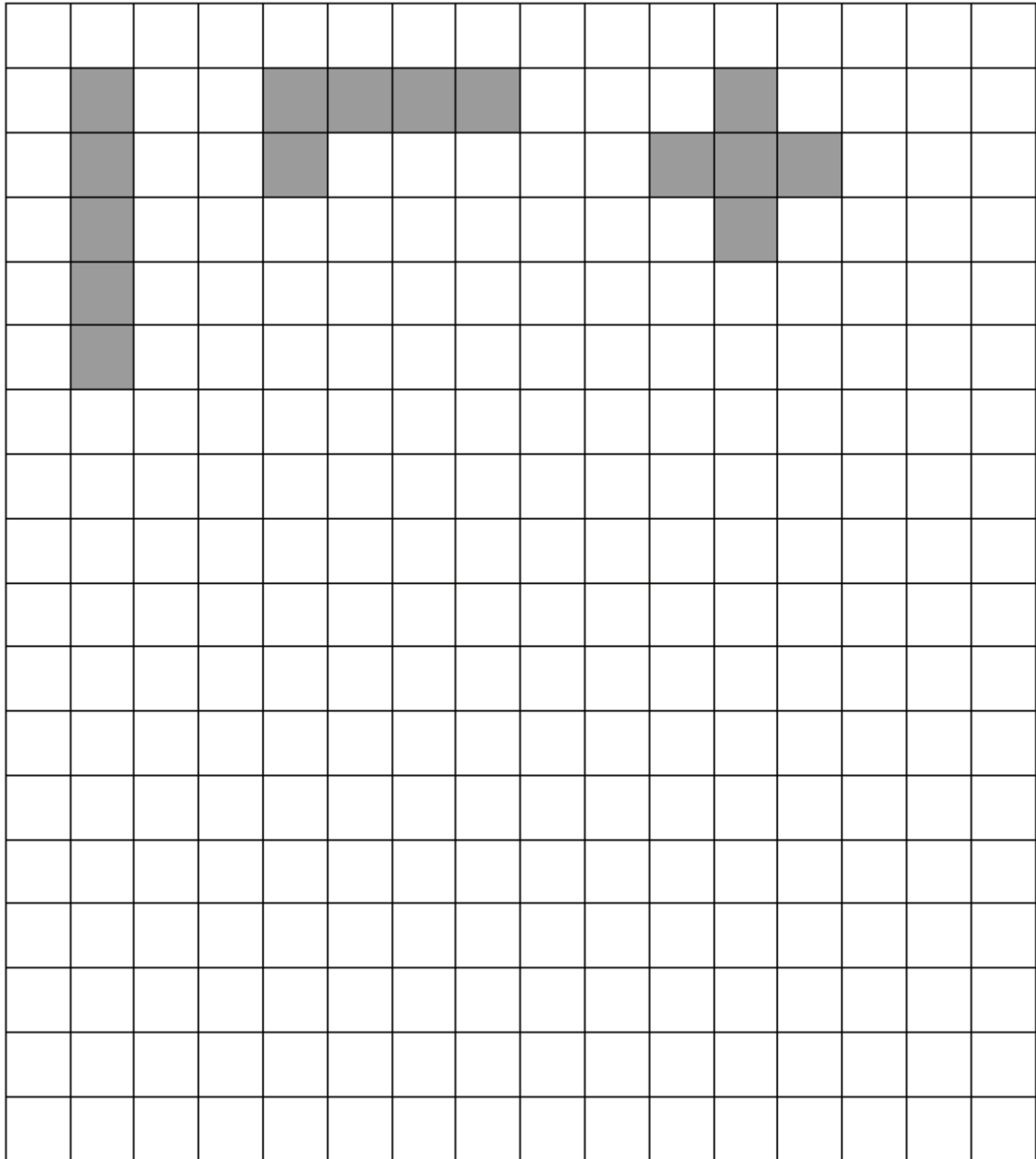


- (ii) Using five squares, it is possible to draw twelve different shapes.

On the squared grid below, three of these five-square shapes have been drawn.

Draw as many other five-square shapes as you can.

(7)



Year 5 Maths Test 1

6. (a) Ken makes garden ornaments.

He packs them in boxes, each of which holds 6 ornaments.



(i) One day he fills 7 boxes and has 4 spaces left in another box.
How many ornaments does he make?

Answer: ornaments (2)

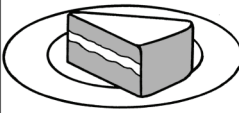

(ii) The next day he makes 53 ornaments.
How many boxes will he need to pack all of them?

Answer: boxes (2)

(iii) How many spaces will there be?

Answer: (1)

(b) Jane, David and Megan go into Mr Stop's shop.

Mr Stop's Shop			
	cup of tea	48p	
	scone	65p	
	cake	48p	
	fruit juice	£1.15	

(i) Jane buys one cup of tea and one scone.

How much does she pay?

Answer: £ (2)

(ii) David buys two fruit juices and two cakes.

How much does he pay?

Answer: £ (2)

(iii) David pays with a £5 note.

How much change does he receive?

Answer: £ (1)

Year 5 Maths Test 1

7. (a) The pupils in Classes 5 and 6 were asked whether they preferred maths or music.

The results for maths are shown in the diagram below.

	maths	music
Class 5	18
Class 6	29

- (i) How many Class 5 pupils preferred maths?

Answer: pupils (1)

18 pupils altogether preferred music.

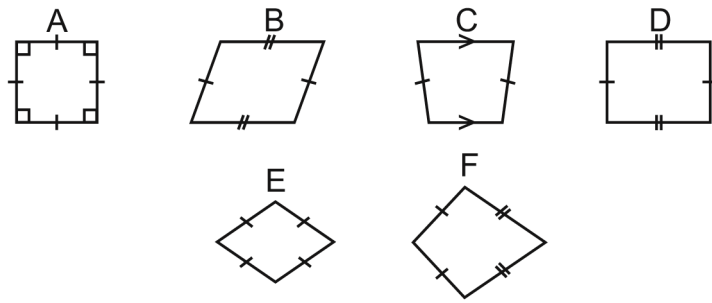
The number of Class 5 pupils who preferred music was twice the number for Class 6.

- (ii) Complete the diagram above to show this information. (2)

- (iii) How many more pupils are there in Class 6 than in Class 5?

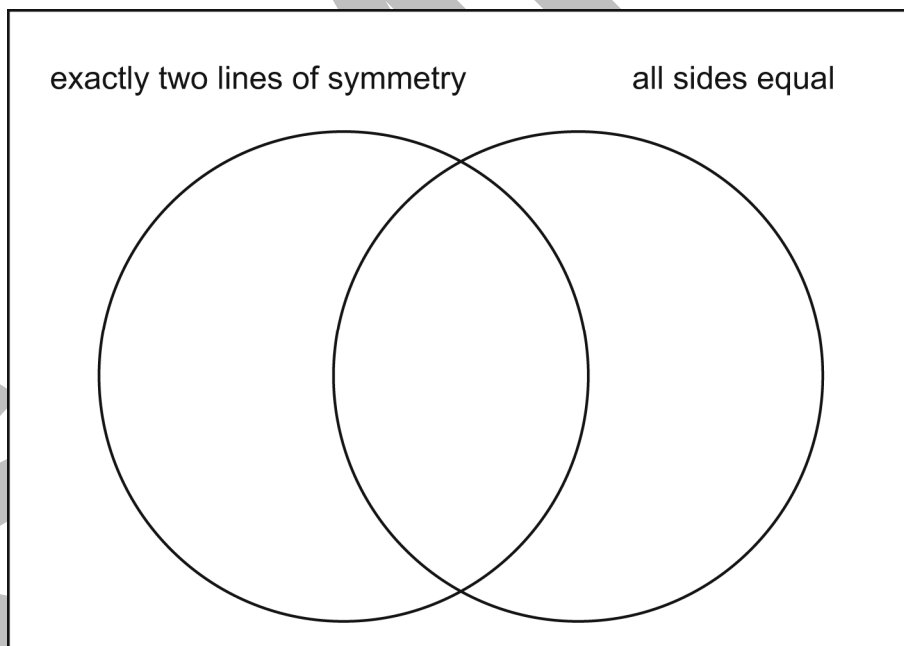
Answer: pupils (3)

(b) (i) Write the names of these quadrilaterals:



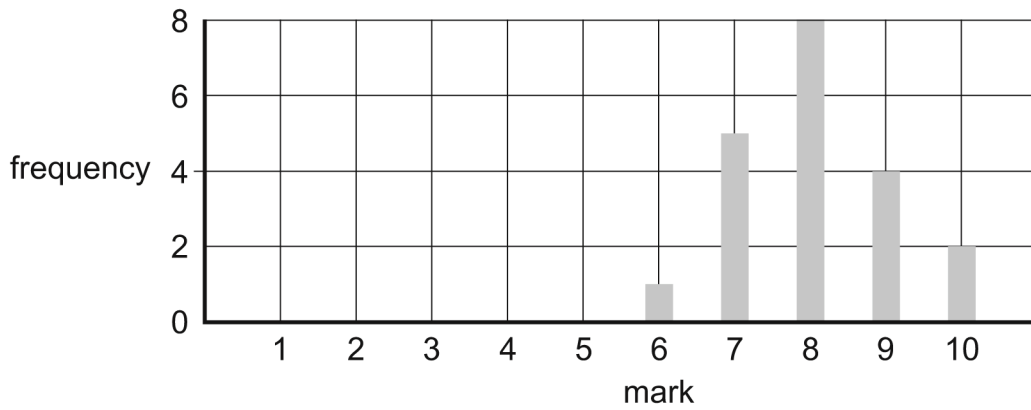
Answer: **A:** **B:**
C: **D:**
E: **F:** (3)

(ii) Write the **letters** of the shapes in the correct regions of the diagram below. (1)



Year 5 Maths Test 1

8. (a) This bar line graph shows the marks out of 10 gained by pupils in a spelling test.



(i) Complete this table.

(2)

mark	number of pupils
6	1
7	
8	
9	
10	
total number of pupils	

(ii) Find the median score.

Answer: marks (1)

(iii) What is the range of scores?

Answer: marks (1)

(iv) The teacher picks a pupil at random.

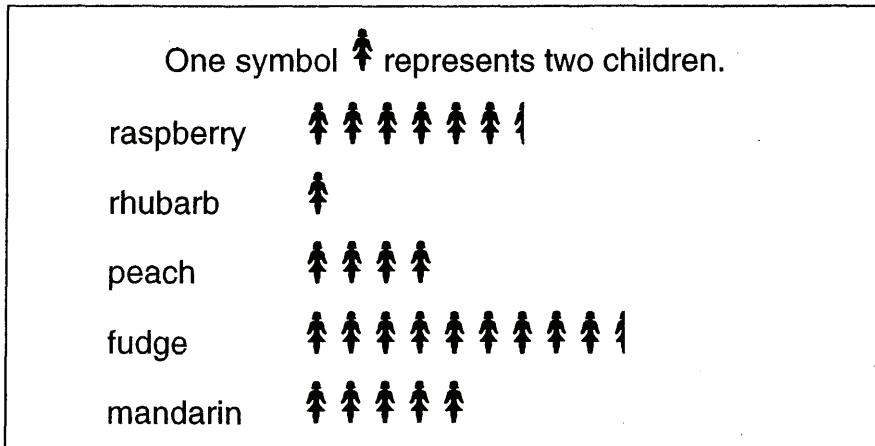
What is the probability that the pupil's mark was 6?

Answer: (1)

(v) What is the probability that the pupil's mark was higher than 7?

Answer: (1)

(b) This pictogram shows the results of a survey into favourite yoghurt flavours.



(i) How many children preferred peach-flavoured yoghurt?

Answer: children (1)

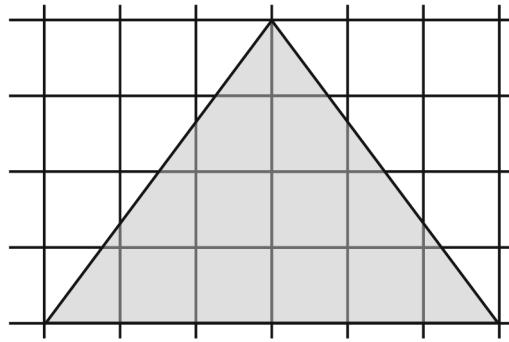
(ii) Which was the least popular flavour?

Answer: (1)

(iii) How many more children preferred fudge-flavoured yoghurt than preferred mandarin-flavoured yoghurt?

Answer: children (2)

9. (a) This plane shape has been drawn on a grid of centimetre squares.



(i) Name the shape.

Answer: (1)

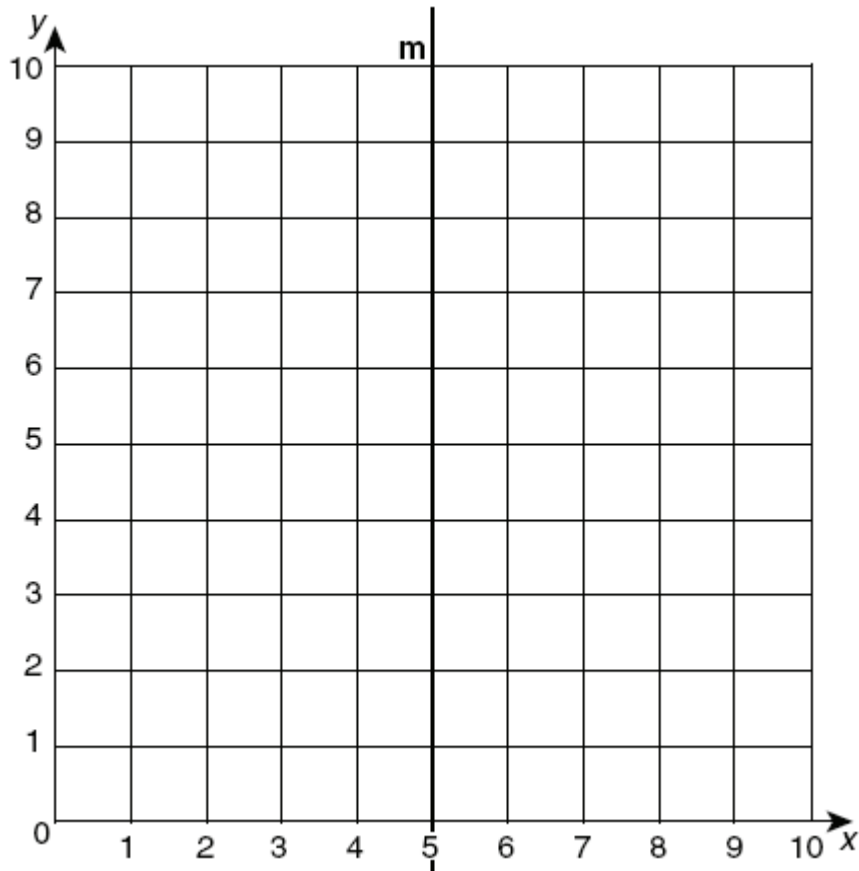
(ii) Measure the perimeter of the shape.

Answer: cm (2)

(iii) What is the area of the shape?

Answer: cm² (2)

- (b) (i) On the grid below, plot and label the points $A(5, 3)$, $B(3, 0)$ and $C(2, 5)$.
 Join the points to form triangle ABC . (2)



- (ii) Which type of triangle is ABC ?

Answer: (1)

- (iii) Reflect the triangle in the line m .

(1)

- (iv) Measure the angle ACB .

Answer:° (1)

Year 5 Maths Test 1

10. (a) For each of the following, choose the most sensible answer.

(i) the height of a double-decker bus

$2\frac{1}{2} \text{ m}$

$4\frac{1}{2} \text{ m}$

$7\frac{1}{2} \text{ m}$

Answer: m (1)

(ii) the mass of a £1 coin

1 g

10 g

100 g

Answer: g (1)

(iii) the time it takes to walk one mile

10 minutes

20 minutes

40 minutes

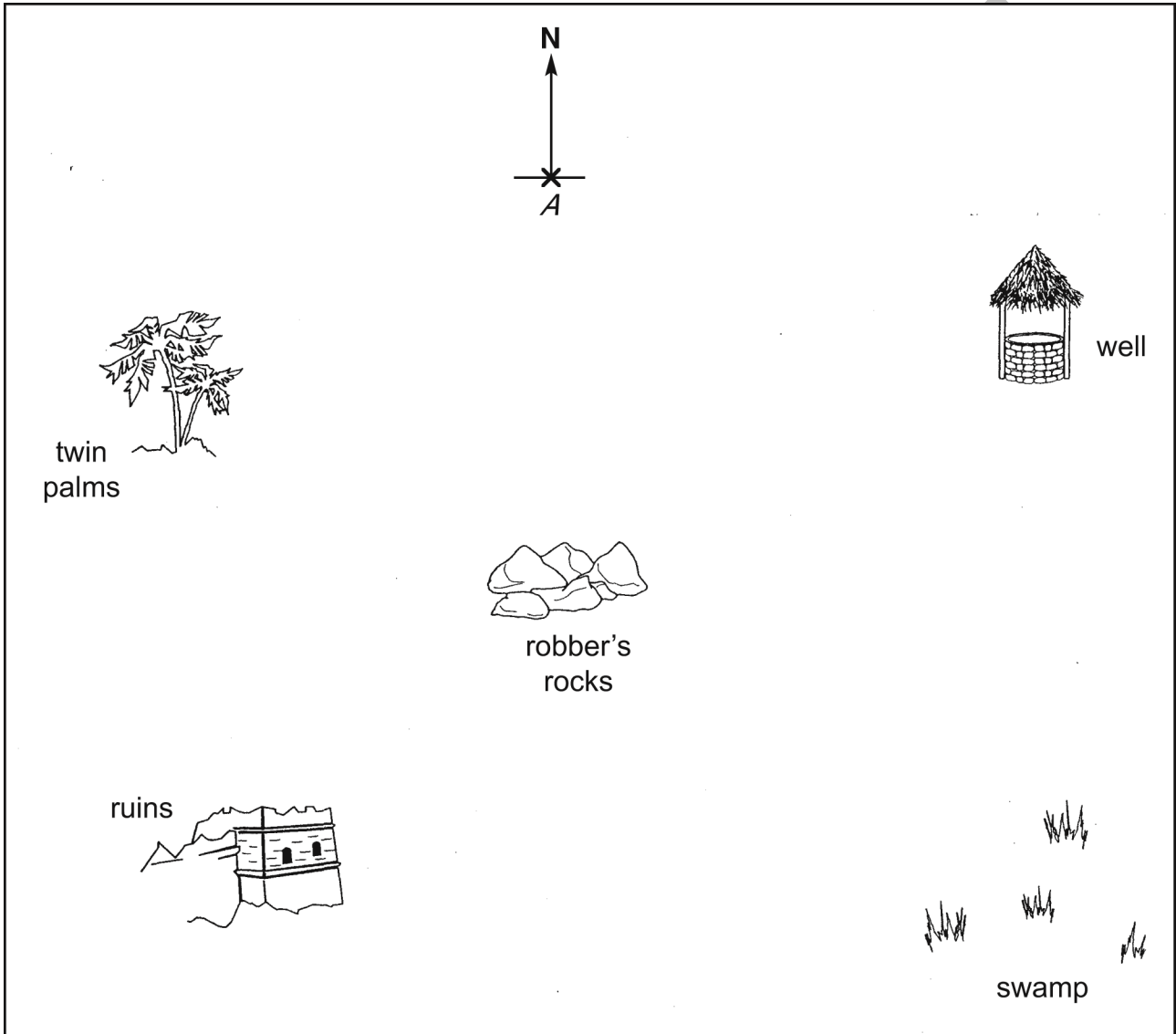
Answer: minutes (1)

(b) This diagram shows part of a treasure map of Besi Island.

1 centimetre (cm) represents 10 metres (m).

To find the treasure (T), you must start at the point marked A , walk 50 m due east and then 130 m southwest.

(i) Draw the route you must follow. (3)



(ii) Mark the position of the treasure. Label it T . (2)

(iii) How far from A is T ?

Answer: m (2)

ISEB Assessments Year 5 Maths Test 1 Answers

Author: ISEB



This document consists of a full set of answers to the questions in Year 5 Maths Test 1.

Total marks: 100

These answers are part of *Year 5 Maths Test 1.zip*, which also contains:

Year 5 Maths Test 1.pdf

(the test)

Year 5 Maths Test 1 Teacher's Document.pdf

(the teacher's document)

REQUIRED PRINT SETTINGS

This document must be printed with Page Scaling set to 'None'.

It can be printed on A4, or on A3 in booklet form, according to your preference.

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Illustrations will not print to the correct scale if these settings are not applied.

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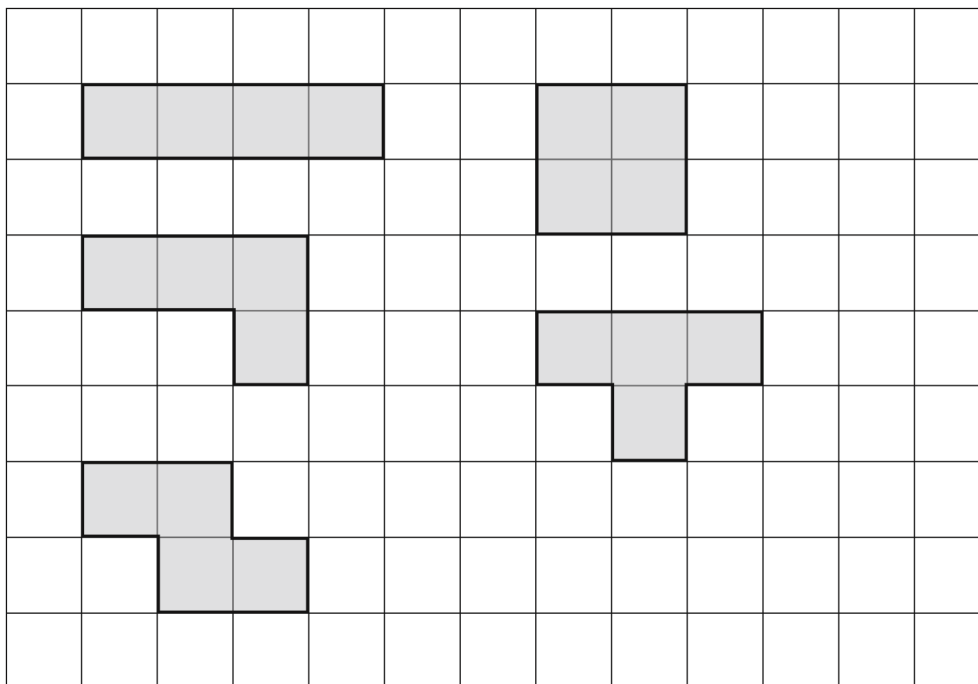
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Year 5 Maths Test 1 Answers

1. (a) (i) £249.50, £405.35, £1000 (2)
(ii) £1654.85 (3)
(iii) £750.50 (2)
- (b) (i) 498.3 (1)
(ii) 498 (1)
(iii) 500 (1)
2. (a) (i) 7, 11, 13 or 19 (1)
(ii) 8 (1)
(iii) 9 (1)
(iv) 10 or 20 (1)
(v) 12 or 18 (1)
- (b) (i) any two of the following: 1, 2, 5, 10, 11, 22, 55, 110 (2)
(ii) 10 (1)
(iii) 99 (2)
3. (a) (i) 27.84 (1)
(ii) 37.31 (2)
(iii) 3.42 (2)
(iv) 2900 (2)
- (b) (i) £12.20 (1)
(ii) £36.60 (2)
4. (a) (i) 45p, 26p, 10p, 1p (2)
(ii) 30p, 26p, 26p (2)
- (b) (i) 12 chestnuts (2)
(ii) 4 chestnuts (2)
(iii) $\frac{1}{3}$ (2)

5. (i) Three shapes drawn

(3)

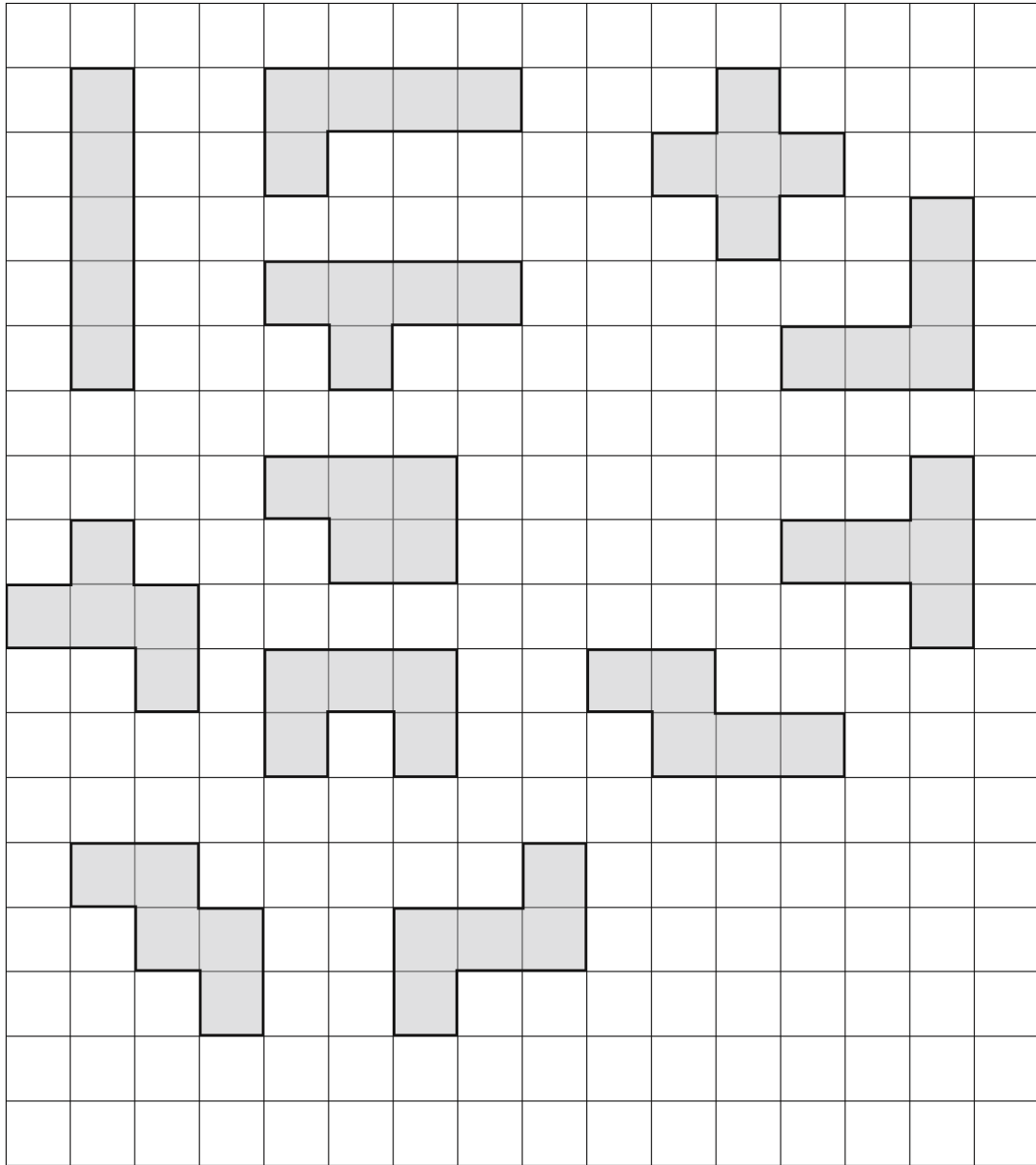


SAMK

Year 5 Maths Test 1 Answers

- (ii) Shapes drawn
 Check that:
- all shapes have 5 squares
 - no shapes are congruent
 - shapes are different from the three given

(7)



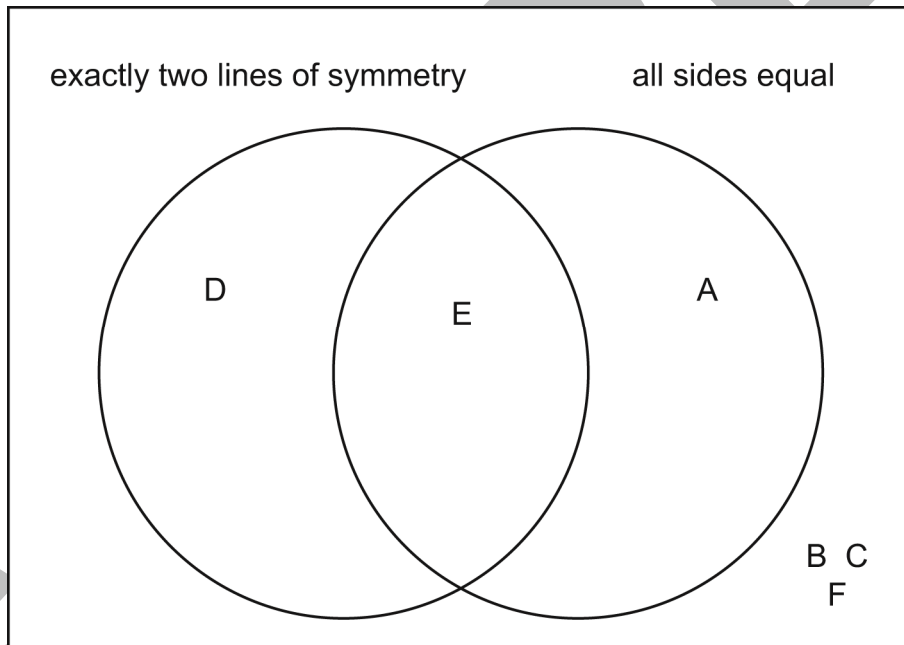
6. (a) (i) 44 ornaments (2)
 (ii) 9 boxes (2)
 (iii) 1 space (1)
- (b) (i) £1.13 (2)
 (ii) £3.26 (2)
 (iii) £1.74 (1)

7. (a) (i) 18 pupils (1)
 (ii) Completed table (2)

	maths	music
Class 5	18	12
Class 6	29	6

- (iii) 5 pupils (3)

- (b) (i) A: square B: parallelogram (3)
 C: isosceles trapezium D: rectangle
 E: rhombus F: kite
 (ii) Letters A–F written in correct regions of Venn diagram (1)



Year 5 Maths Test 1 Answers

8. (a) (i) Completed table (2)

mark	number of pupils
6	1
7	5
8	8
9	4
10	2
total number of pupils	20

(ii) 8 marks (1)

(iii) 4 marks (1)

(iv) $\frac{1}{20}$ (5%) (1)

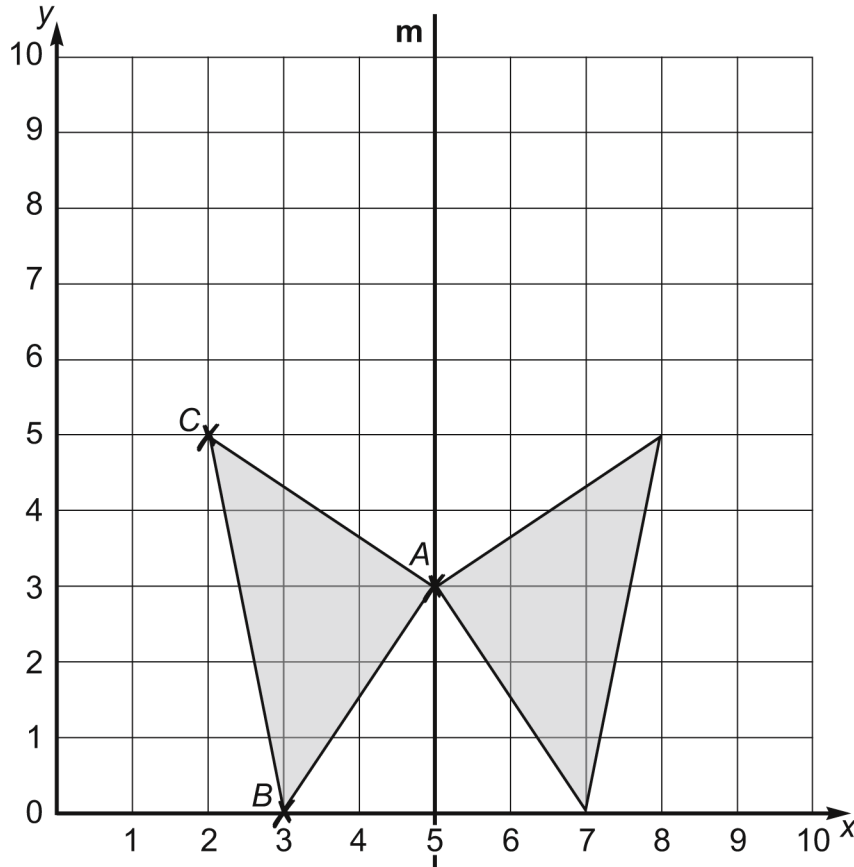
(v) $\frac{7}{10}$ (70%) (1)

(b) (i) 8 children (1)

(ii) Rhubarb (1)

(iii) 9 children (2)

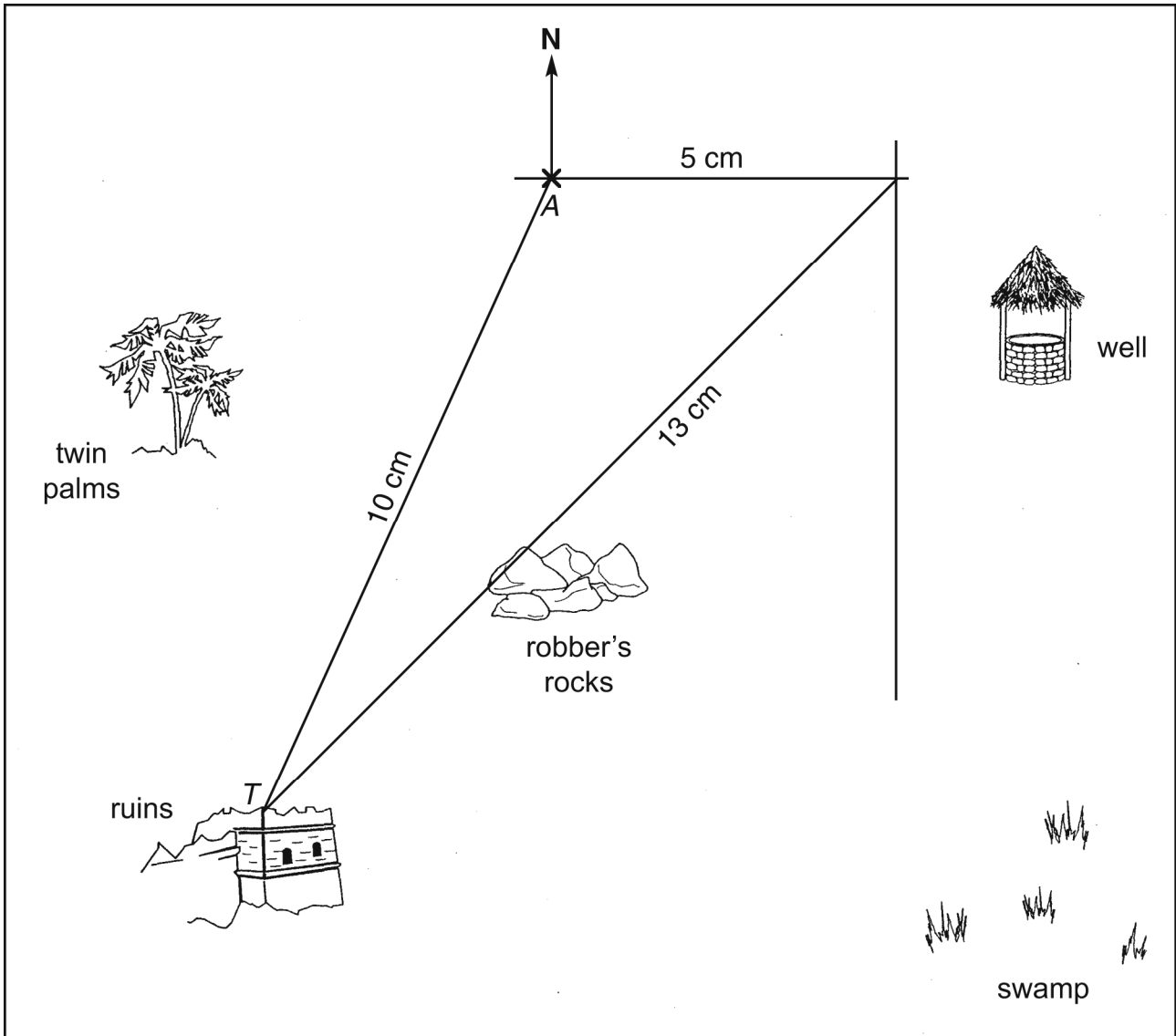
9. (a) (i) Isosceles triangle (1)
 (ii) 16 cm (2)
 (iii) 12 cm² (2)
- (b) (i) Points plotted and joined to form triangle ABC (2)



- (ii) Right-angled isosceles (1)
 (iii) Reflection of triangle in the line m (1)
 (iv) 45° (1)

Year 5 Maths Test 1 Answers

10. (a) (i) $4\frac{1}{2}$ m (1)
 (ii) 10 g (1)
 (iii) 20 minutes (1)
- (b) (i) Route drawn (allow 1 mark for 5 cm line east of A; 2 marks for 13 cm line southwest) (3)



- (ii) Position of T marked (allow 1 mark for near miss) (2)
 (iii) 100 m (2)

ISEB Assessments

Year 5 Maths Test 1

Teacher's Document



This test contains a selected set of 10 questions aimed at Year 5 pupils.
The questions are arranged in a particular topic order as follows:

Topic	Question
Number	1
	2
Calculations	3
	4
Problems (including Handling Data)	5
	6
	7
	8
Shape, Space and Measures	9
	10

Total marks: 100

Total time allocated: 1 hour

Calculators are not allowed.

Teachers should feel free to use this resource in whatever way is most appropriate for their scheme of work. The test can be attempted all at once and is designed to take a Year 5 pupil approximately one hour to complete.

Some questions require pupils to explain their answers. If you feel that this is too demanding, pupils can be instructed to explain themselves orally to you or to the rest of the class in a discussion.

Please refer to the printing instructions provided on the next page of this teacher's document before printing copies of the test or the accompanying answers.

This teacher's document is part of *Year 5 Maths Test 1.zip*, which also contains:

Year 5 Maths Test 1.pdf (the test)
Year 5 Maths Test 1 Answers.pdf (the answers)

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