Key Stage 2

Mathematics

Reasoning: Pack 2 Test 2b

Name	
Date	

/35
total marks

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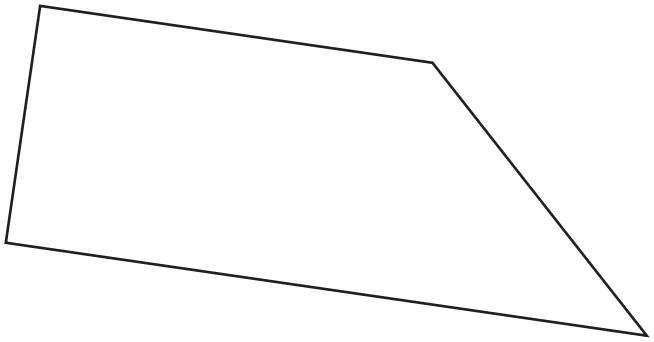
Name: Date:

35 total marks

Key Stage 2 Maths Reasoning: Pack 2 Test 2b

1. Here is a quadrilateral.



Measure accurately the length of the longest and shortest sides.

longest _____ cm shortest _____ cm

1 mark

2. 1 kg = 2.2 lb

Convert 3.5kg into pounds (lb)

1 mark

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3. 7 children buy a 330 ml can of lemonade and a 1 litre bottle of cola.

2 children share the can equally, and 5 children share the bottle equally.

How much more drink do the children sharing the bottle have than those sharing the can?

2 marks

4. Order the following quantities from smallest to largest.

$\frac{1}{5}$ of 70 $\frac{3}{4}$ of 20 60% of 24

Smallest Largest

1 mark

5. Write down a number with 3 tenths, 9 hundredths and 7 thousandths.

1 mark

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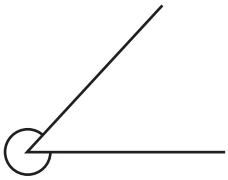
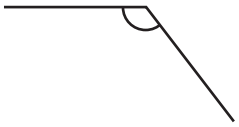
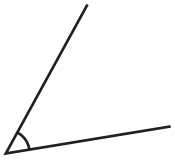
6. Write acute, reflex and obtuse below the correct angle.







1 mark

7. A shopkeeper has 14 boxes of 24 cans and 14 packs of 6 cans. How many cans does the shopkeeper have altogether?

2 marks

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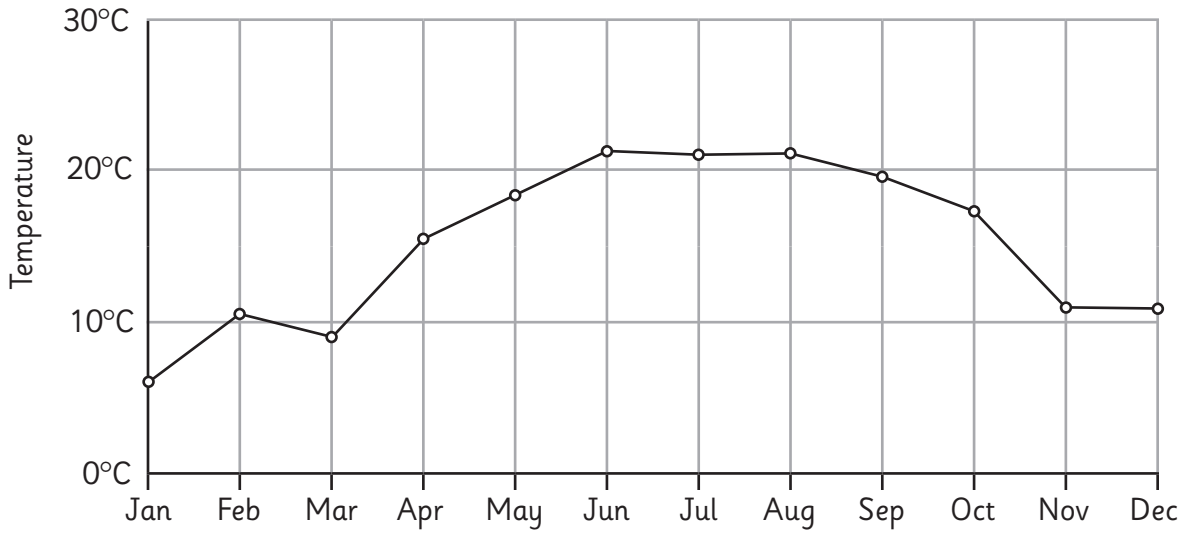
8. Here is a graph showing the average maximum temperatures in London.



a) How many months have an average temperature above 15°C?

1 mark

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

1 mark

9. Each week a group of 8 children in a class take a special maths test. The teacher keeps a record of the average score each week.

One week the scores are: 10, 10, 8, 7, 6, 6, 6, 5. What is the mean or average score?

2 marks

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10. In one month 110 346 fans attend the four football matches at a football team's home ground.

The attendances at the first three games were 28 963, 29 672, 24 082.

a) How many attended the fourth game?

2 marks

b) Rounding each attendance to the nearest 500, what is the new total attendance?

2 marks

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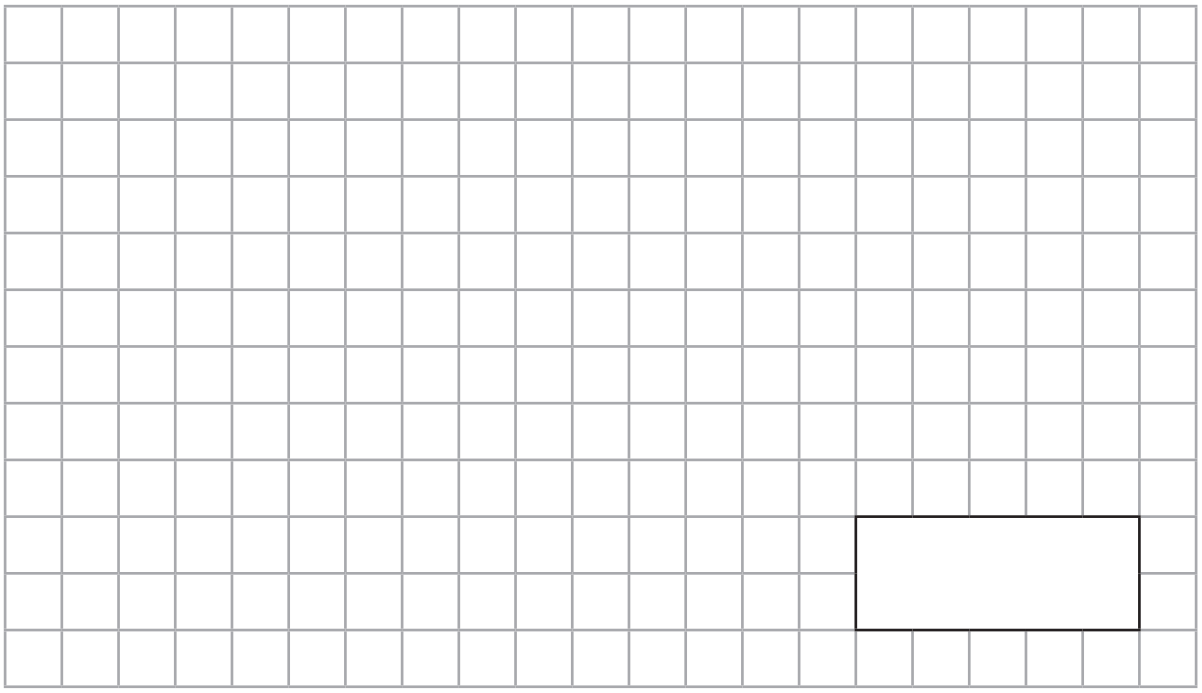
11. A father cooks some pasta for himself and his daughter for a packed lunch. He cooks 75g for himself and 50g for his daughter.

When serving the pasta he serves himself 6 equal spoonfuls.

How many spoonfuls will he serve his daughter?



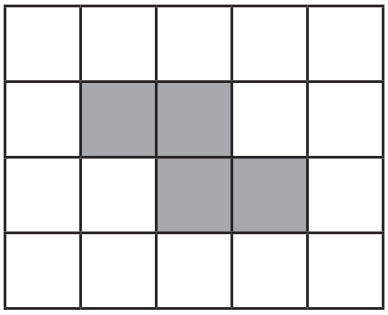
2 marks

12. Complete the following addition calculation.

$$\begin{array}{r} \square\ 4\ 6\ \square \\ +\ 3\ 8\ 7\ 9 \\ \hline 7\ 3\ 4\ 1 \end{array}$$

2 marks

13. Shade some more squares in this rectangle so that $\frac{7}{10}$ is shaded.



1 mark

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14. Use the digits 1, 2, 7 and 9 to write 2 numbers with a total of 10.

1 mark

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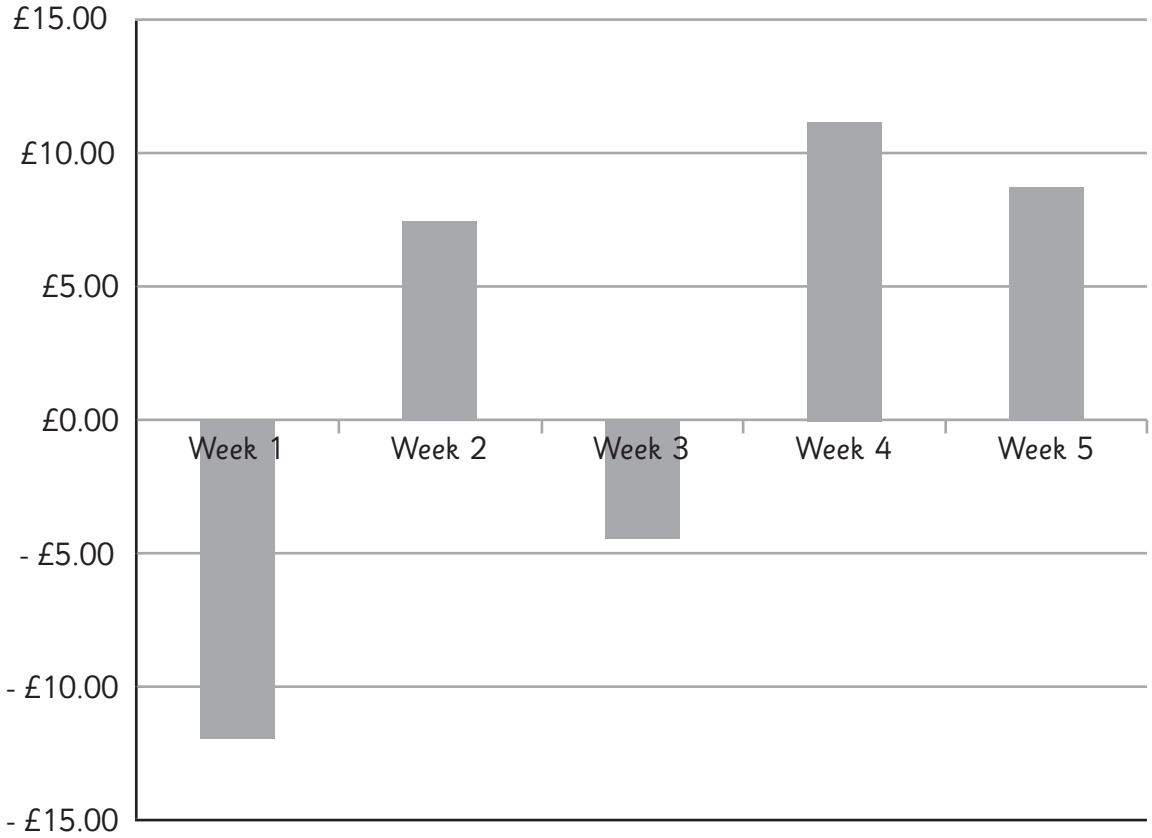
15. A school fruit shop records its profit and loss over a five week period.

This graph shows the profit and loss each week.



Calculate the total profit or loss over the five weeks.

2 marks

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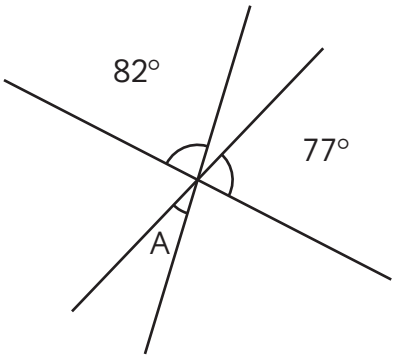
16. Write the decimal numbers in the marked boxes to continue the sequence.

17.56	17.59	17.62	17.65
17.68	17.71	17.74	17.77

2 marks

17. These 3 lines all intersect at the same point.



Calculate the angle marked A.

1 mark

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18. A singer sells a single as a music download and CD, making a total profit of £246.64

She sells 456 CD singles, earning 35p for every single sold.
She earns 17p for each music download of the single.

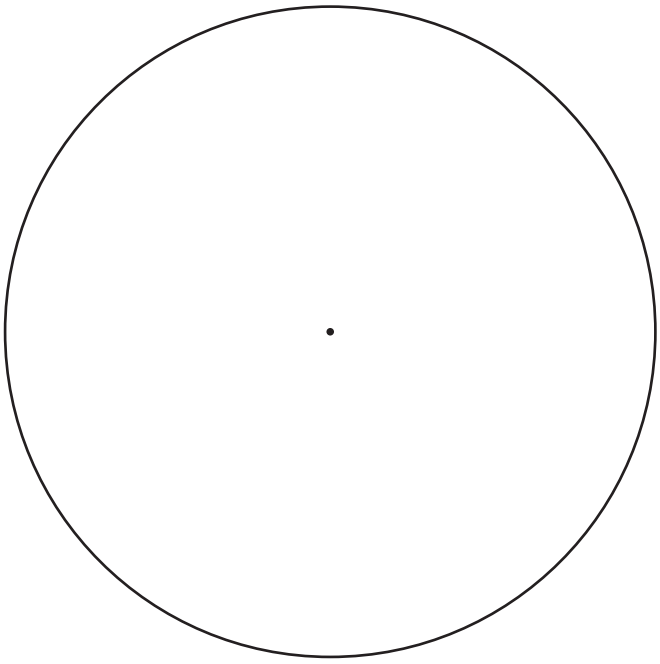
How many music downloads did she sell?

3 marks

19. A class of children record the choice of school dinners over one week.

Meal	Number of children
Hot meal	75
Jacket potato with filling	45
Sandwiches	60

Use the information in the table to construct a pie chart.



2 marks

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20. A supermarket sells different bags of potatoes.

£2.60 £1.25 85p

A shopper wants to buy at least 4.5kg of potatoes.

What is the cheapest way to buy at least 4.5kg of potatoes?

2 marks

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question	answer	marks	notes
1.			
	Longest **8.6cm** Shortest **3.2cm**	1	Allow 0.1cm error for each. Both correct for 1 mark.
2.			
	7.7lb	1	
3.			
	35ml or 0.035l	2	1 mark for an incorrect answer but only one mistake in calculating.
4.			
	$\frac{1}{5}$ of 70 = **14** 60% of 24 = **14.4** $\frac{3}{4}$ of 20 = **15**	1	
5.			
	0.397	1	Accept any digits in the whole number places.
6.			
		1	
7.			
	420 cans	2	1 mark for an incorrect answer but only one mistake in calculating. (14 x 24) + (14 x 6) = 14 x 30 = 420
8.			
a	6 or 7	1	allow October to be included or not as it is 15C.
b	15°C	1	Allow 14-16°. Unit must be written for the mark.
9.			
	7.25	2	

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question	answer	marks	notes
10.			
a	27 629	2	1 mark for an incorrect answer but only one mistake in calculating. Total of three games given is 82 717.
b	**110 000** 29 000 + 29 500 + 24 000 + 27 500	2	2 marks for correct answer, including an answer that correctly uses an incorrect answer from 10a. 1 mark for an incorrect answer but only one mistake in rounding.
11.			
	4 spoonfuls ratio is 3:2 father: daughter	2	1 mark for an incorrect answer but only one mistake in calculating.
12.			
	346**2** 3879 + 7341	2	2 marks for both correct, 1 mark for 1 correct digit
13.			
	10 more shaded so 14 are shaded altogether.	1	Allow partial shading of squares as long as the total is 14 squares e.g. 10 whole squares and 8 half squares.
14.			
	2.9 + 7.1 or 2.1 + 7.9	1	
15.			
	£10.50 profit Allow £10 - £11	2	2 marks for an answer between (and including) £10 and £11. 1 mark for an answer between (and including) £9 and £10 or £11 and £12.
16.			
	17.95 and **18.25**	2	1 mark for each correct answer.
17.			
a	21°	1	° must be written for mark to be awarded.

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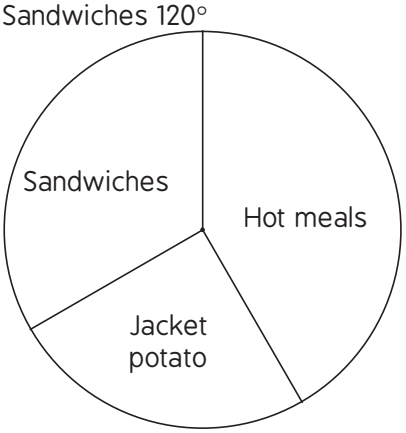
question	answer	marks	notes
18.			
	512 download	3	2 marks for a correct method with no more than 1 mistake in calculation. 1 mark for a correct method but an incorrect answer.
19.			
	Hot meals 150° Jacket potato 90° Sandwiches 120°  	2	2 marks for correct answer within an error of 1° 1 mark for correct answer within an error of 3°
20.			
	Two 2.5kg bags (£2.50) Note Three 1.5kg bags would be £2.55 and one 5kg bag £2.60.	2	1 mark for correctly calculating the cost of buying at least 4.5kg with each bag, but giving an incorrect answer.
		Total 35	

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