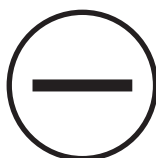


Key Stage 2

Mathematics

Reasoning: Pack 2 Test 2b

Name	
Date	

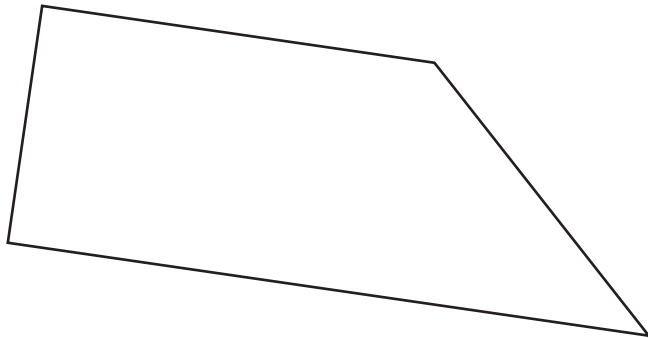


35

total marks

Date:

1. Here is a quadrilateral.



longest cm shortest cm

Convert 3.5kg into pounds (lb)

A 10x10 grid with a rectangle drawn on the right side. The rectangle is positioned such that its left edge is at the 7th vertical grid line, its right edge is at the 10th vertical grid line, its top edge is at the 8th horizontal grid line, and its bottom edge is at the 9th horizontal grid line. This rectangle covers a 4x2 area of the grid.

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?

[illegible]

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

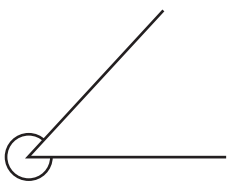
1 mark

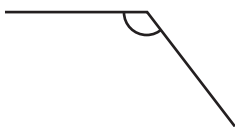
5. Write down a number with 3 tenths, 9 hundredths and 7 thousandths.

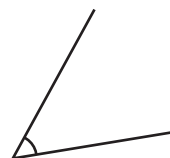
1 mark

Total for
this page

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?

A full-page sheet of white graph paper with a light gray grid. The grid consists of small squares. In the bottom right corner, there is a rectangular box with a black border, which appears to be a placeholder for a logo or watermark. The rest of the page is empty grid.

2 marks

Total for
this page

1 mark



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

A full-page view of a blank sheet of white graph paper. The grid consists of thin, light gray horizontal and vertical lines forming small squares across the entire page. There are no margins, text, or other markings on the paper.

2 marks

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

[illegible]

2 marks

Total for
this page

How many spoonfuls will he serve his daughter?

[illegible]
$$\begin{array}{rcccc} \square & 4 & 6 & \square \\ + & 3 & 8 & 9 \\ \hline 7 & 3 & 4 & 1 \end{array}$$

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

	■	■		
		■	■	

Total for
this page

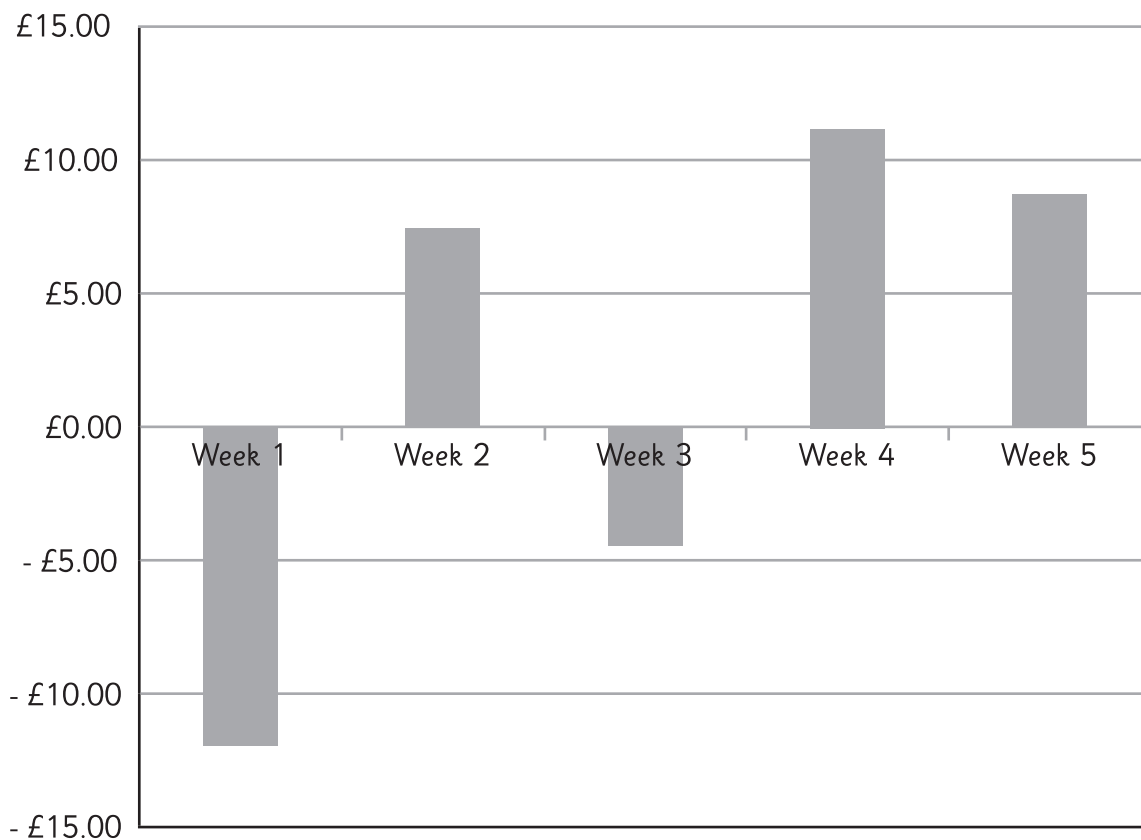
14. Use the digits 1, 2, 7 and 9 to write 2 numbers with a total of 10.

1 mark

Total for
this page

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.

[illegible]

2 marks

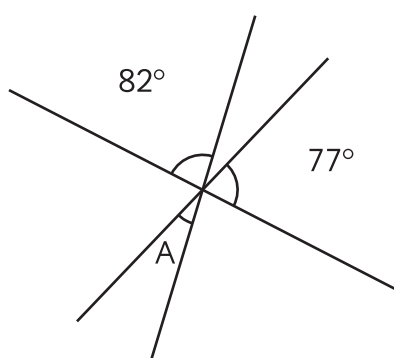
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this page

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

Total for this page

3 marks

2 marks

Total for
this page

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

A large circle with a small black dot at its center. The circle is drawn with a thin black line, and the dot is a small, solid black circle. The entire figure is centered on the page.



£2.60



£1.25

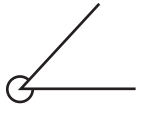
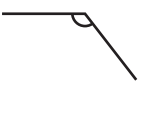



85p

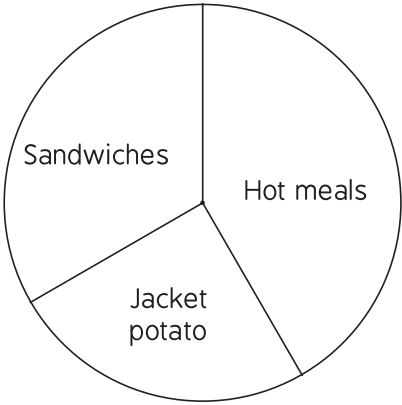
A shopper wants to buy at least 4.5kg of potatoes.

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

[illegible]

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. $(14 \times 24) + (14 \times 6) = 14 \times 30 = 420$
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	

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.			
	3462 $\frac{3879}{7341} +$	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.

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.			
	<p>Hot meals 150° Jacket potato 90° Sandwiches 120°</p> 	2	2 marks for correct answer within an error of 1° 1 mark for correct answer within an error of 3°
20.			
	<p>Two 2.5kg bags (£2.50) Note Three 1.5kg bags would be £2.55 and one 5kg bag £2.60.</p>	2	1 mark for correctly calculating the cost of buying at least 4.5kg with each bag, but giving an incorrect answer.
		Total 35	