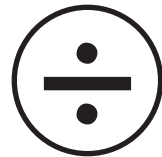
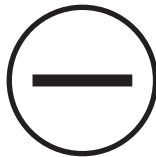


# Key Stage 2

## Mathematics

### Reasoning: Pack 2 Test 2b

Name	
Date	



35

total marks

Name:

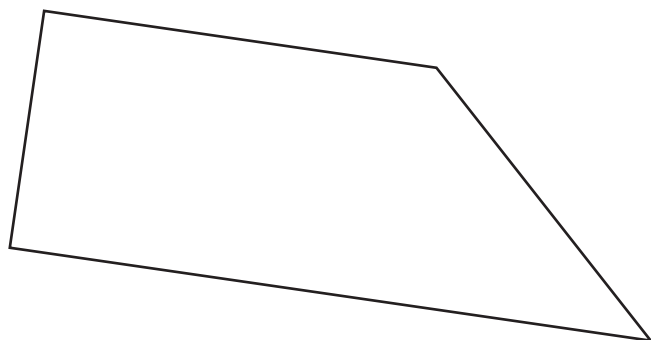
Date:

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

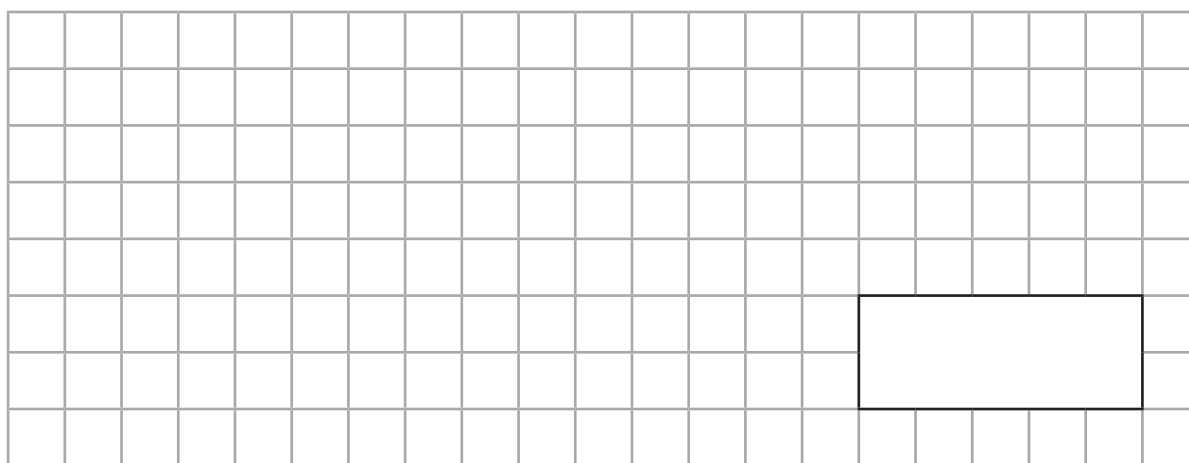
Shortest  cm



1 mark

2.  $1\text{ kg} = 2.2\text{ lb}$

Convert 3.5kg into pounds (lb)



1 mark

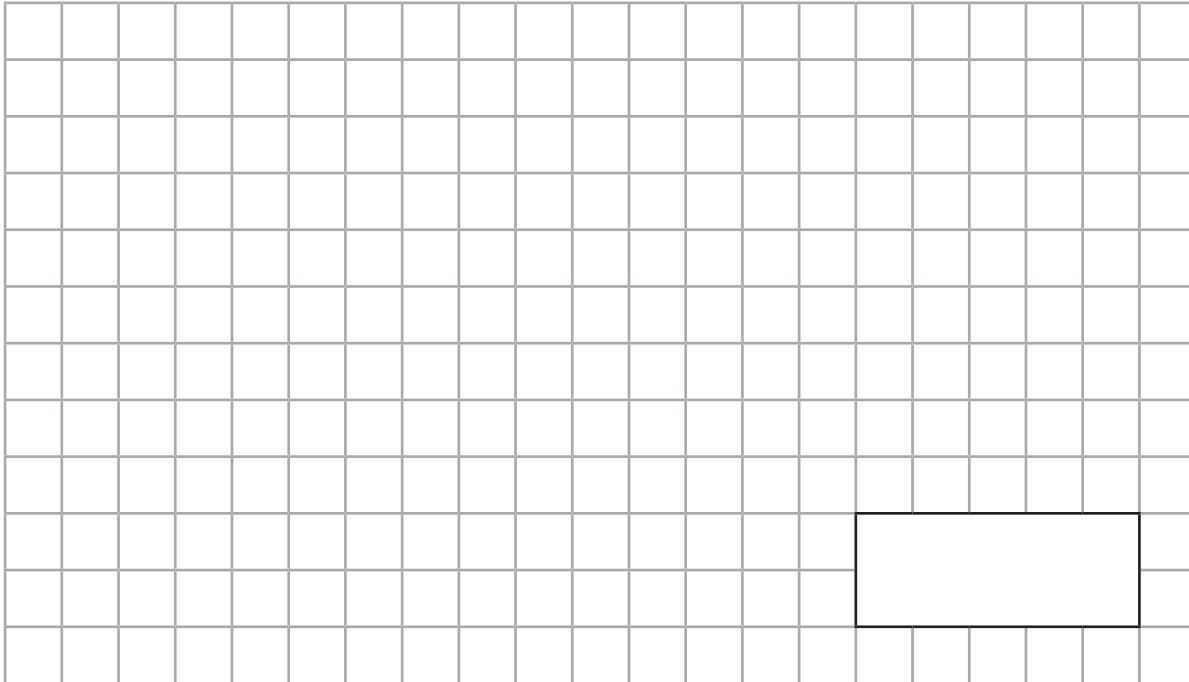


Total for  
this page

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



1 mark

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



1 mark

Total for this page









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14. Use 8 different digits to write an addition calculation with 2 numbers, so the total is 10.

0 may be used




1 mark



Total for  
this page



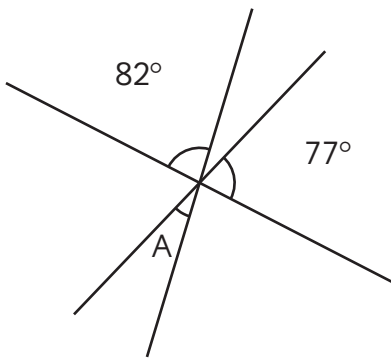


16. Write the decimal numbers in the marked boxes to continue the sequence.

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.

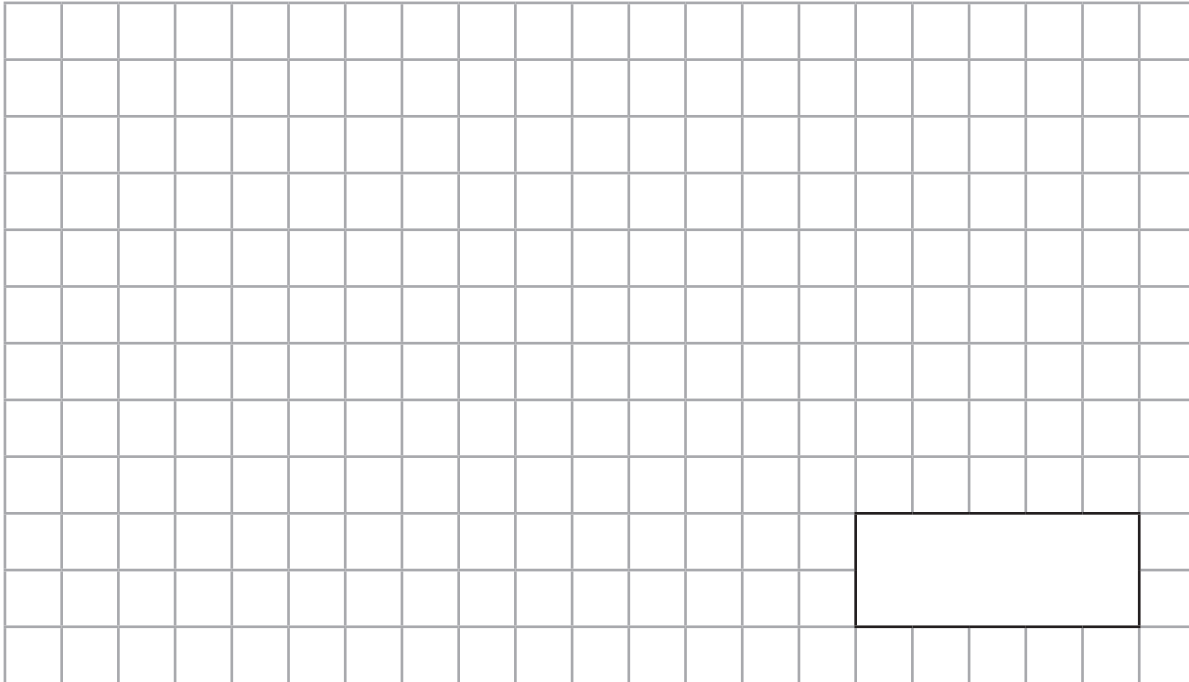


Calculate the angle marked A.

1 mark

Total for this page

18. A singer sells a single as a music download and CD, making a total profit of £8399.82.  
 She sells 12 354 CD singles, earning 35p for every single sold.  
 She earns 17p for each music download of the single.

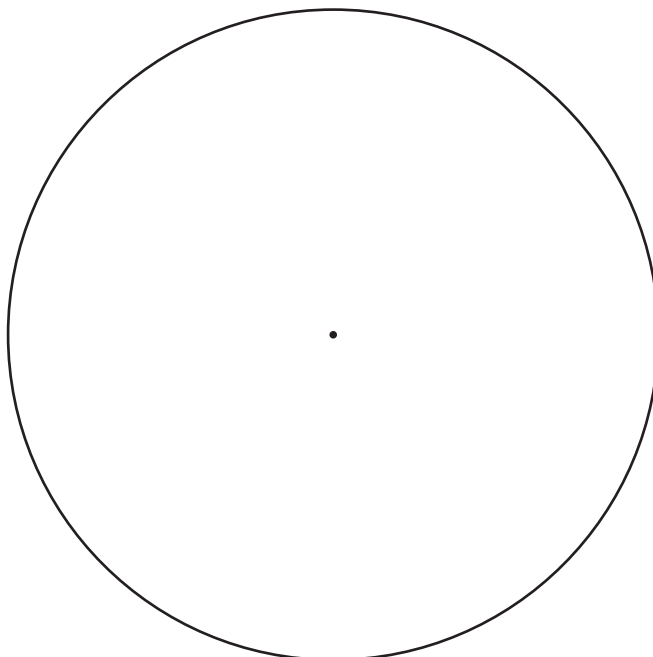


3 marks

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.



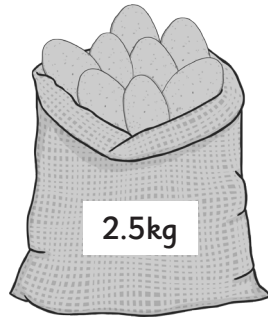
2 marks

Total for this page

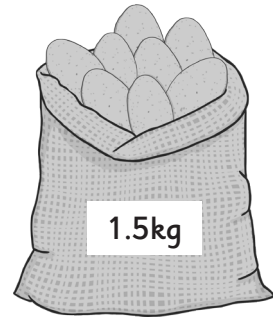
20. A supermarket sells different bags of potatoes.



£2.60



£1.25




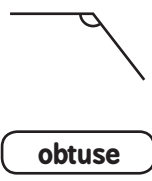
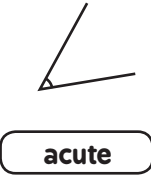
85p

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

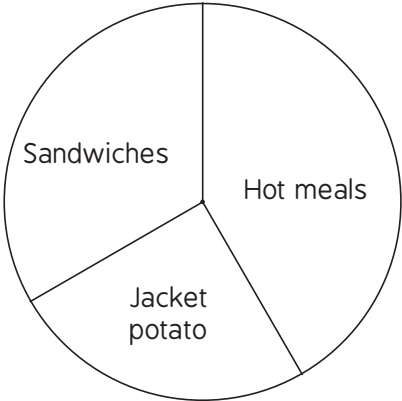
What is the cheapest way to buy at least 4.5kg of potatoes?


2 marks

Total for this page

question	answer	marks	notes
<b>1.</b>			
	Longest <b>8.6cm</b> Shortest <b>3.2cm</b>	1	Allow 0.1cm error for each. Both correct for 1 mark.
<b>2.</b>			
	7.7lb	1	
<b>3.</b>			
	35ml or 0.035l	2	1 mark for an incorrect answer but only one mistake in calculating.
<b>4.</b>			
	$\frac{1}{4}$ of 70 = <b>14</b> 60% of 24 = <b>14.4</b> $\frac{3}{4}$ of 20 = <b>15</b>	1	
<b>5.</b>			
	0.397	1	Accept any digits in the whole number places.
<b>6.</b>			
	  	1	
<b>7.</b>			
	420 cans	2	1 mark for an incorrect answer but only one mistake in calculating. $(14 \times 24) + (14 \times 6) = 14 \times 30 = 420$
<b>8.</b>			
a	8 months (April – Nov)	1	
b	15°C	1	Allow 14-16°. Unit must be written for the mark.
<b>9.</b>			
	6 scores totalling 38 e.g. 6, 6, 6, 6, 7, 7	2	1 mark for correctly identifying the total of the 8 scores is 58.

question	answer	marks	notes
<b>10.</b>			
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	<b>110 000</b> 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.
<b>11.</b>			
	<b>4 spoonfuls</b> ratio is 3:2 father: daughter	2	1 mark for an incorrect answer but only one mistake in calculating.
<b>12.</b>			
	<b>3462</b> <u>3879</u> + 7341	2	1 mark for 3 correct digits.
<b>13.</b>			
	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.
<b>14.</b>			
	Any correct answer: e.g. 5.017 + 4.983	1	
<b>15.</b>			
	<b>£10.50</b> 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.
<b>16.</b>			
	<b>17.95</b> and <b>18.25</b>	2	1 mark for each correct answer.
<b>17.</b>			
a	21°	1	° must be written for mark to be awarded.

question	answer	marks	notes
<b>18.</b>			
	23 976 downloads	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. A correct method: $12\ 354 \text{ CD singles @ } 35\text{p} = \pounds 0.35 \times 12\ 354 = \pounds 4323.90$ $\text{Music download earning} = \pounds 8399.82 - \pounds 4323.90 = \pounds 4075.92$ $\text{Number of downloads} = \pounds 4075.92 \div \pounds 0.17$ or $407592 \div 17 = 23\ 976$
<b>19.</b>			
	Hot meals $150^\circ$ Jacket potato $90^\circ$ Sandwiches $120^\circ$ 	2	2 marks for correct answer within an error of $1^\circ$ 1 mark for correct answer within an error of $3^\circ$
<b>20.</b>			
	<b>Two 2.5kg bags (£2.50)</b> 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	