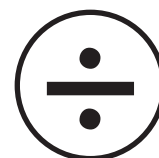
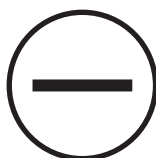


Key Stage 2

Mathematics

Reasoning: Pack 2 Test 2b

Name	
Date	



35

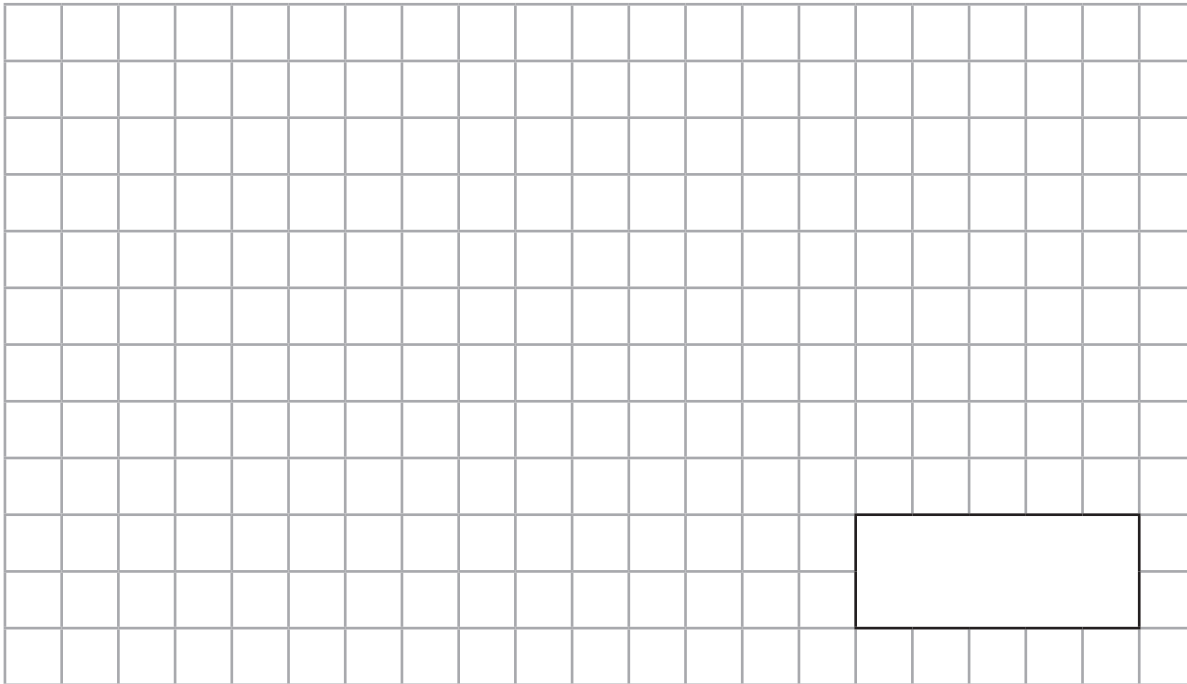
total marks

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.

How many music downloads did she sell?

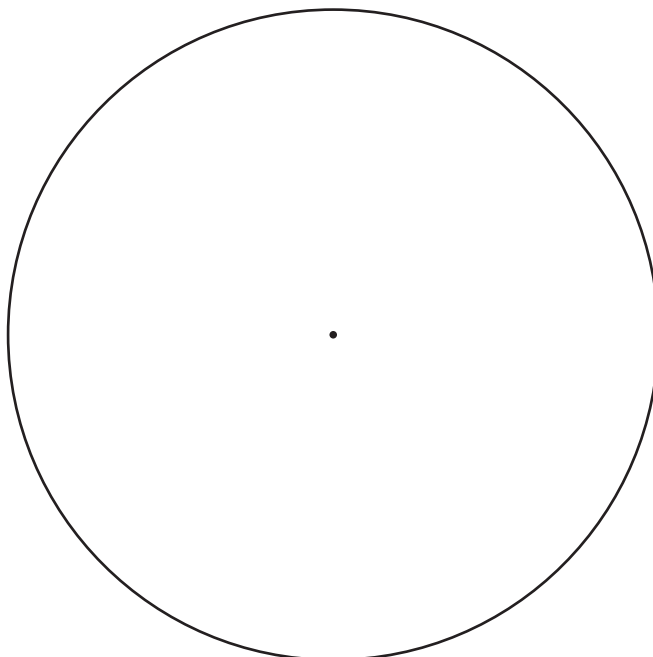


3 marks

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

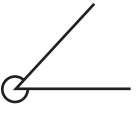
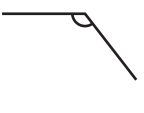

Meal	Number of children
Hot meal	75
Jacket potato with filling	45
Sandwiches	60

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

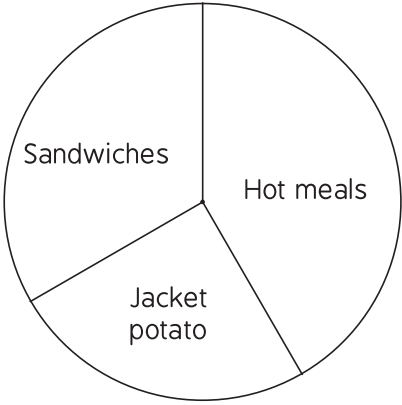


2 marks

Total for this page

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.			
	$\frac{1}{4}$ 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	8 months (April – Nov)	1	
b	15°C	1	Allow 14-16°. Unit must be written for the mark.
9.			
	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
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 <u>3879</u> + 7341	2	1 mark for 3 correct digits.
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.			
	Any correct answer: e.g. 5.017 + 4.983	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.			
	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 $407592 \div 17 = 23\,976$
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	