

Numerical Reasoning

Test 12



Questions Booklet

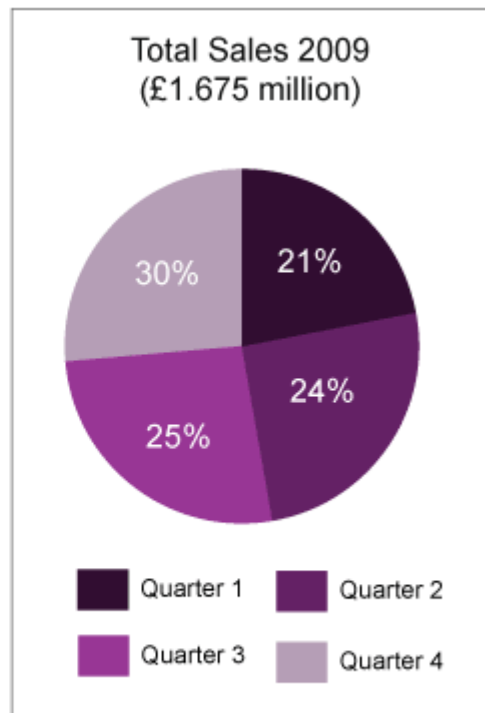
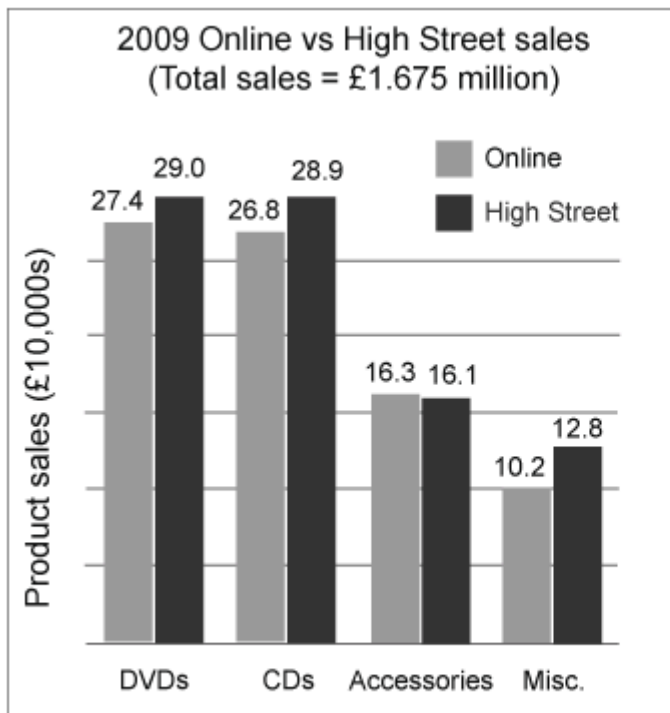
Instructions

This practice test contains **30 questions**, and you will have **30 minutes** to answer them.

Each question will have four possible answers, one of which is correct.

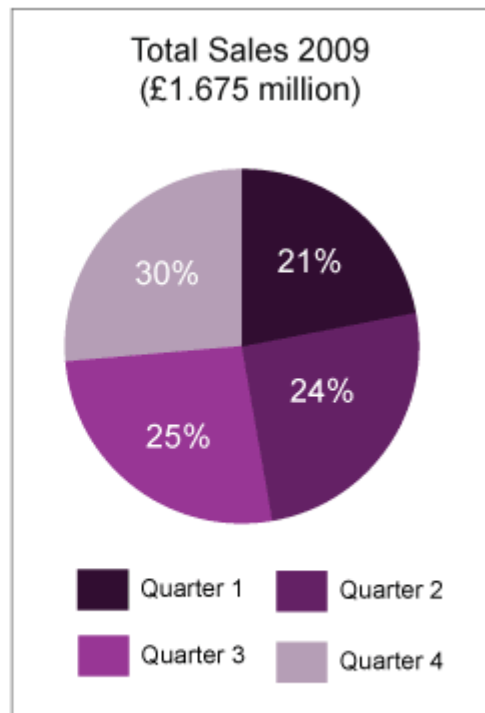
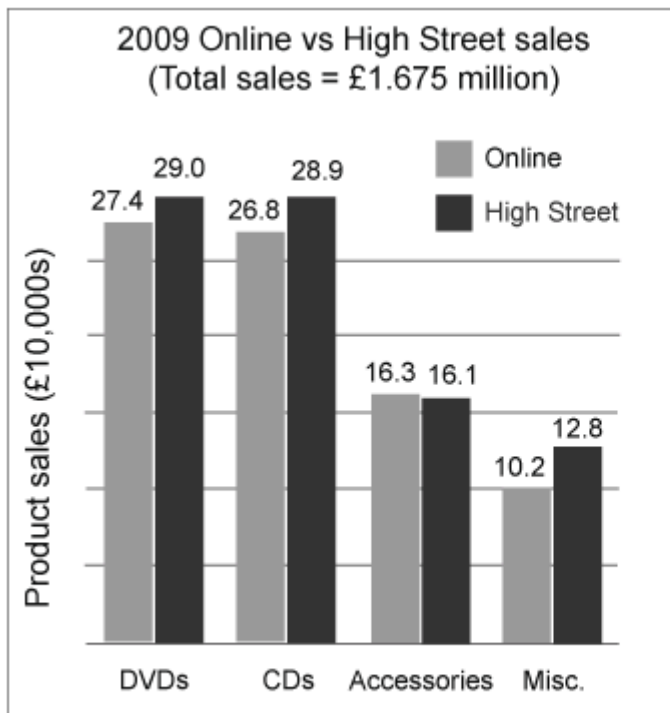
Calculators are permitted for this test. It's recommended to have some rough paper for your calculations. You will have to work quickly and accurately to perform well in this test. If you don't know the answer to a question, leave it and come back to it if you have time.

Try to find a time and place where you will not be interrupted during the test. When you are ready, turn to the next page and begin.



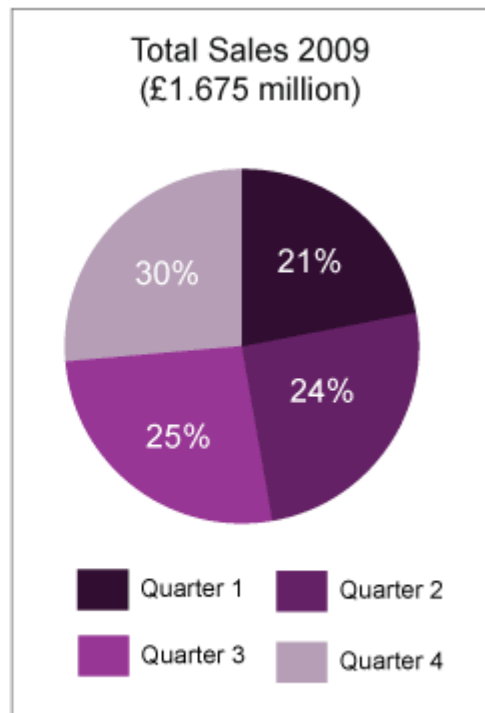
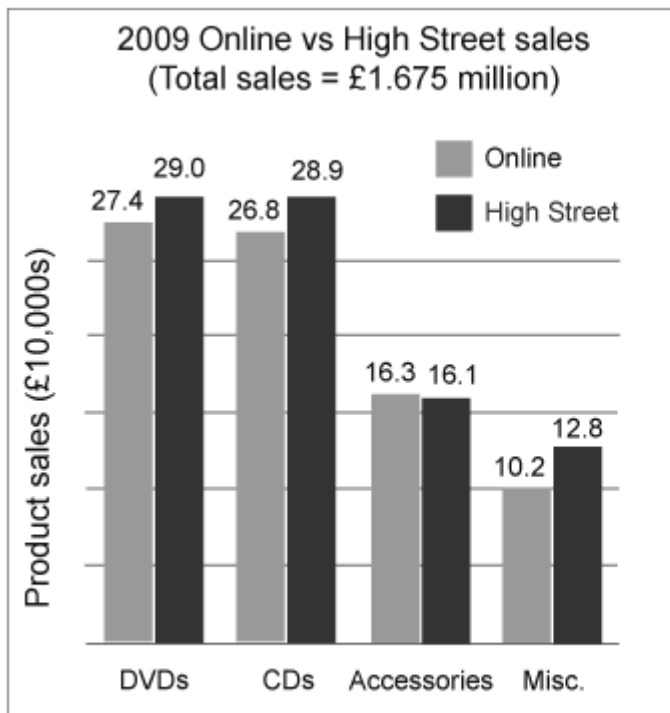
Q1 What are the combined sales of quarters 1 and 4?

- (A) £850,000
- (B) £852,250
- (C) £854,250
- (D) £856,000
- (E) £858,000



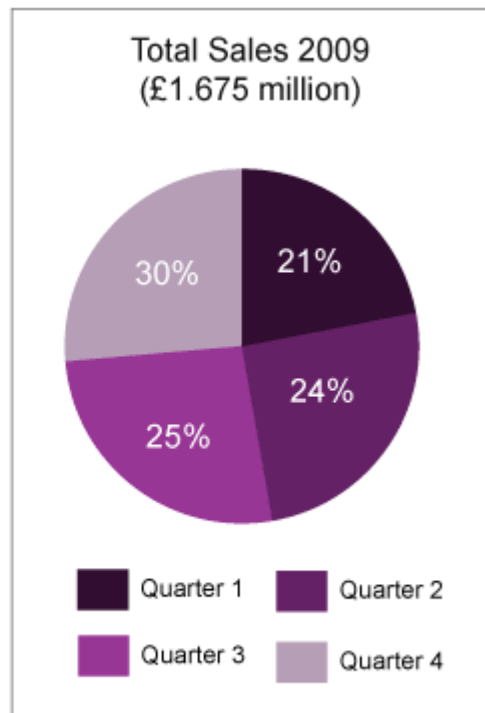
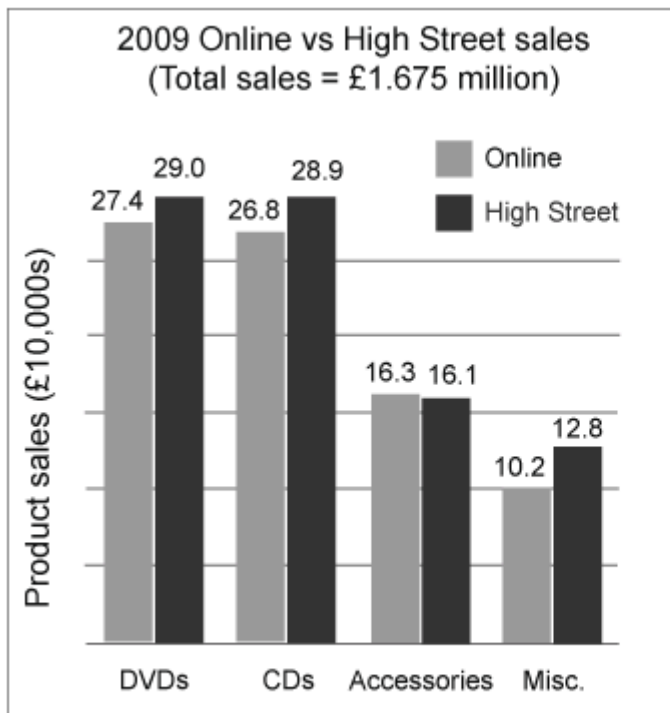
Q2 If the profit margin for online sales is $\frac{1}{8}$ th of the sales value, what was the total profit for online sales in 2009?

- (A) £460,850
- (B) £11,175
- (C) £100,875
- (D) £80,750
- (E) £81,500



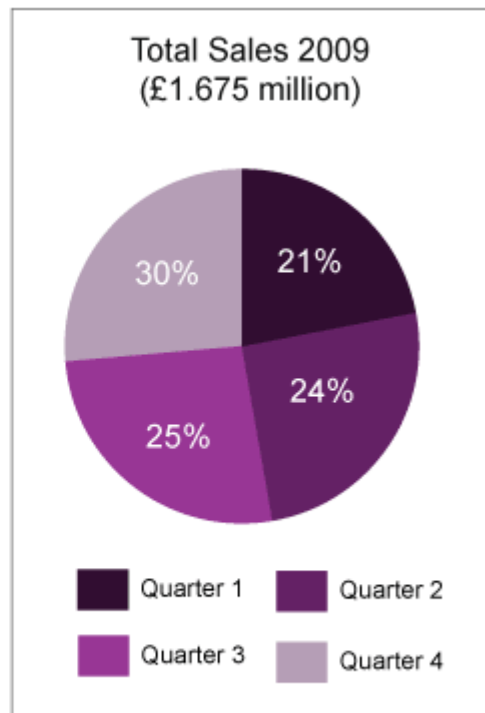
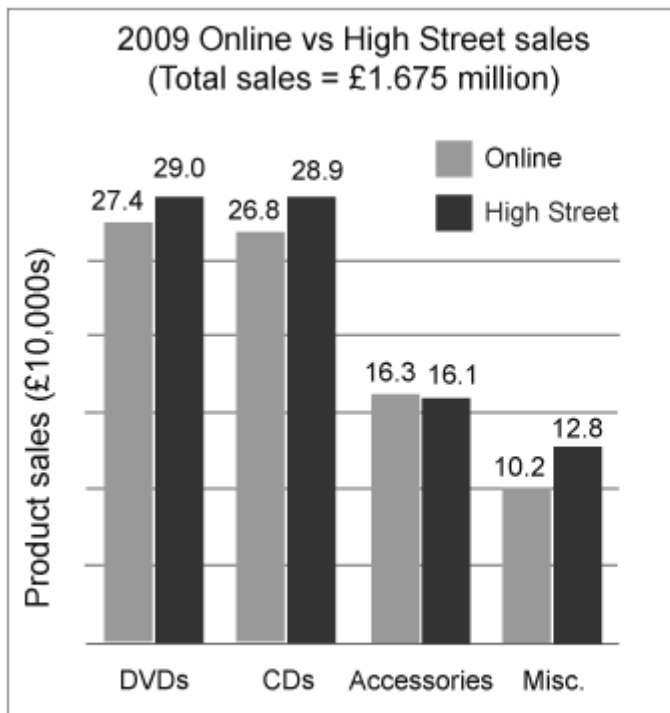
Q3 What is the difference in sales between the best and worst performing quarters?

- (A) £335,000
- (B) £83,750
- (C) £418,750
- (D) £150,750
- (E) None of these



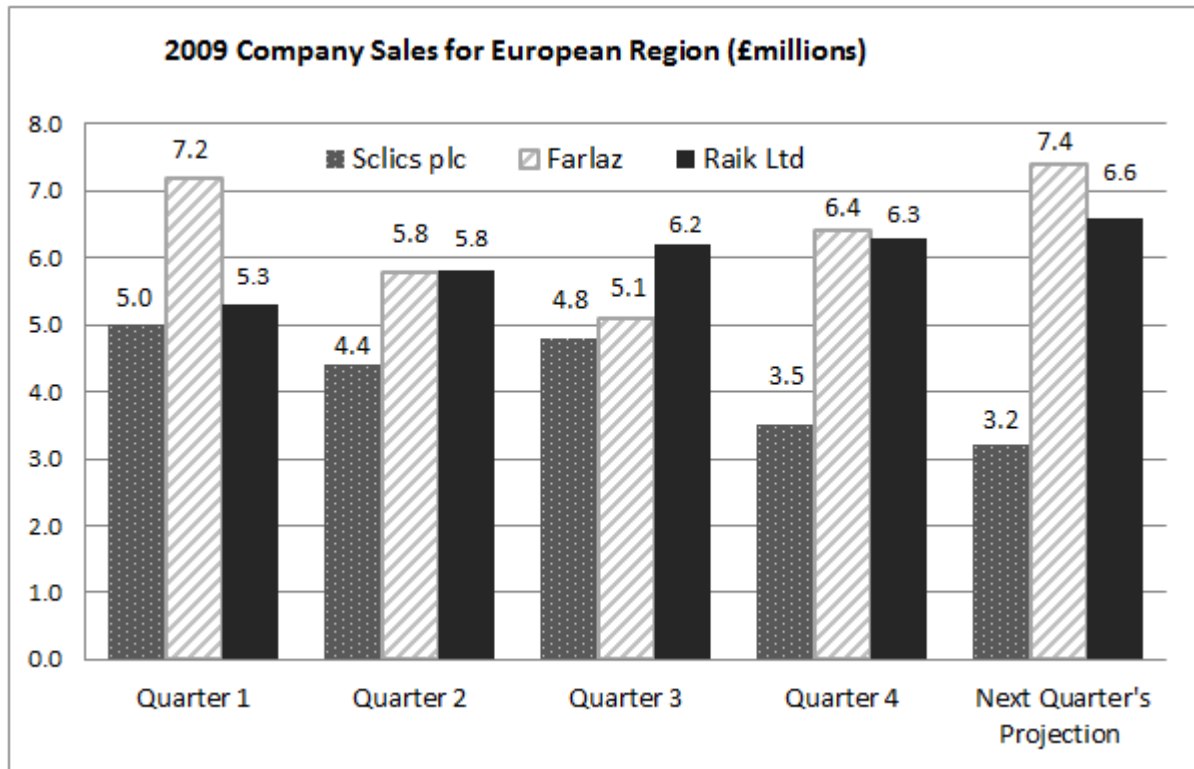
Q4 What was the difference between Online and High Street sales (in £10,000s)?

- (A) 6.1
- (B) 6.8
- (C) 2.9
- (D) 6.9
- (E) 2.8



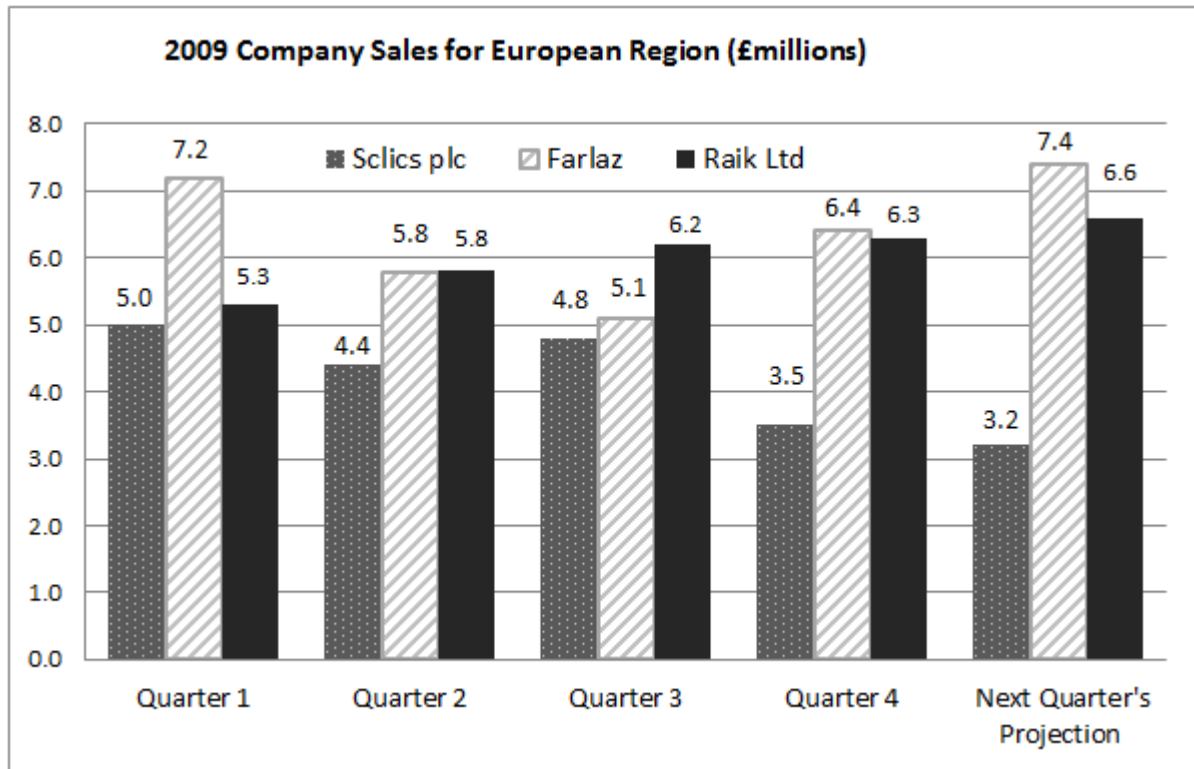
Q5 In 2010 there is a High Street CD and DVDs sale that results in an increase in the annual 2009 sales of each category by 11% and 14.5% respectively. What are the combined High Street DVD and CD sales for 2010?

- (A) £480,500
- (B) £514,118
- (C) £652,840
- (D) £0.56 million
- (E) £65.4 million



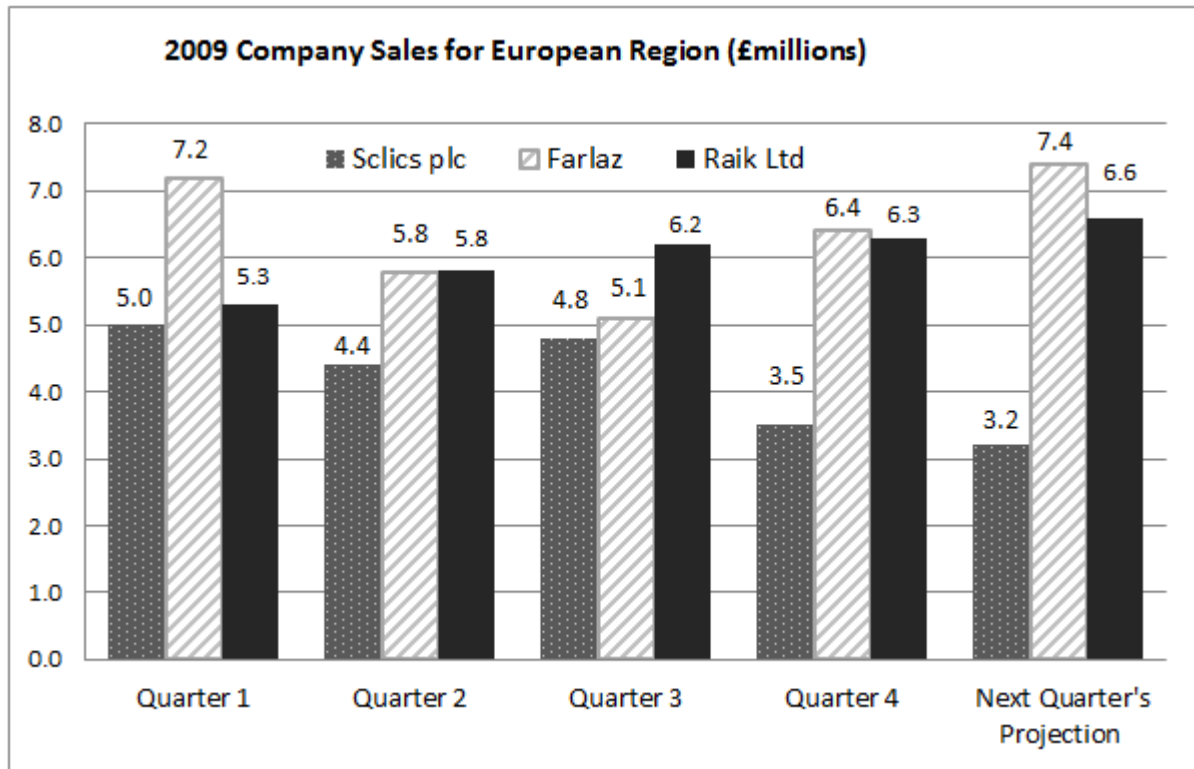
Q6 In which quarter did Sclics plc, Farlaz and Raik Ltd each experience an increase in sales for the European Region?

- (A) Quarter 1
- (B) Quarter 2
- (C) Quarter 3
- (D) Quarter 4
- (E) None of these



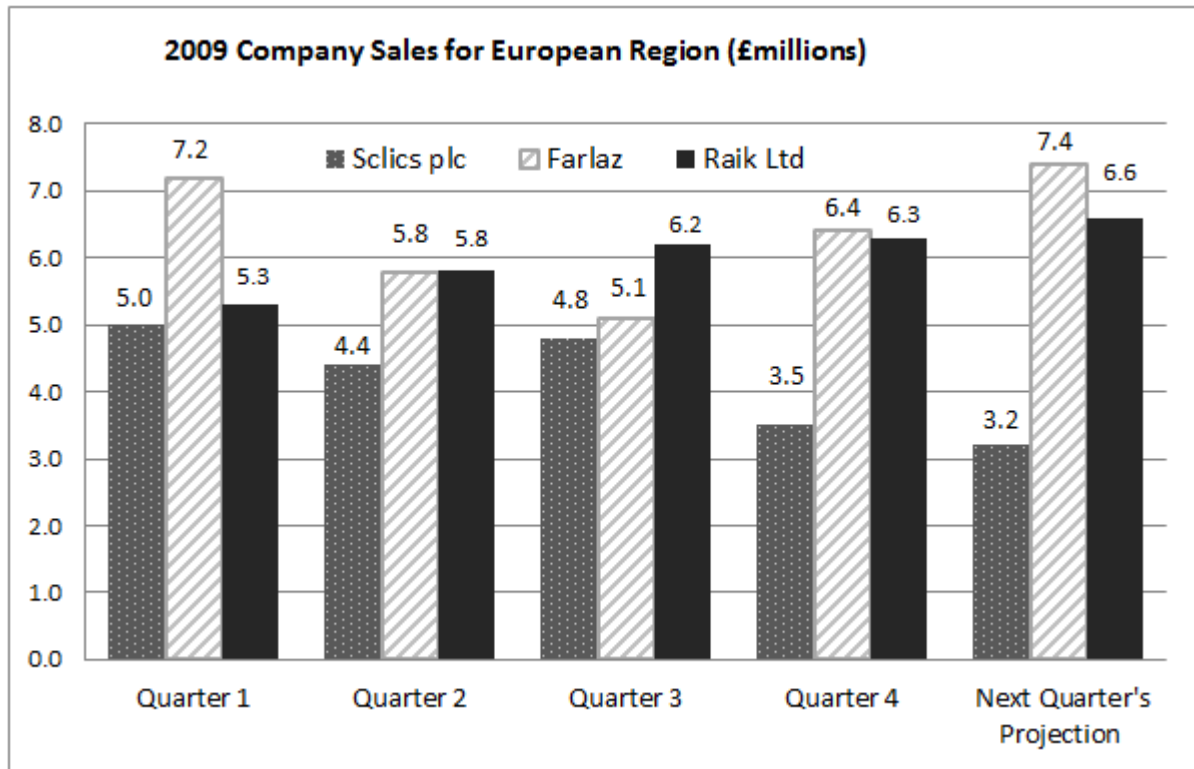
Q7 If the annual European sales for Raik Ltd represent 45% of worldwide sales, what is the level of sales worldwide?

- (A) £62.5 million
- (B) £52.4 million
- (C) £42.6 million
- (D) £28.8 million
- (E) £23.6 million



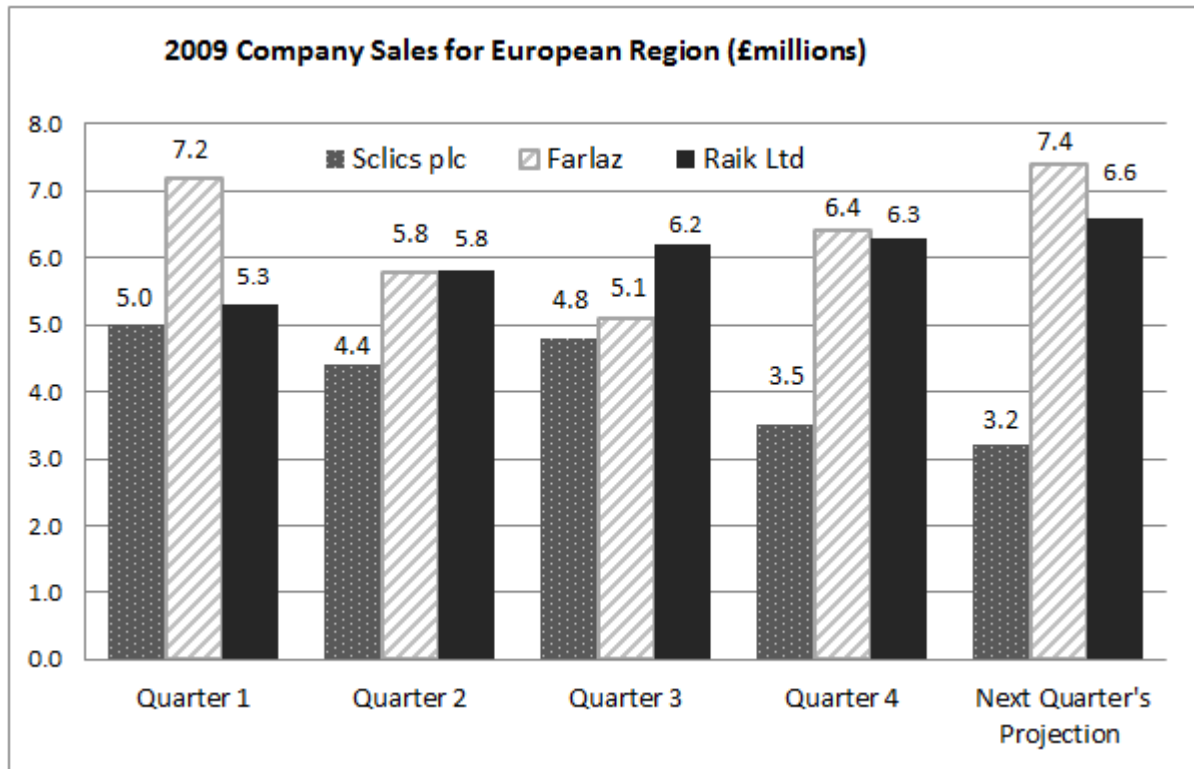
Q8 How much did Sclics plc's European sales in quarters 1 and 2 differ from Farlaz's European sales over the same period?

- (A) £3.6 million more
- (B) £3.6 million less
- (C) £2.2 million less
- (D) 2.2 million more
- (E) None of these



Q9 If the annual sales target for Raik Ltd was £29.5 million, by what fraction of this target did the company underperform?

- (A) $\frac{2}{3}$
- (B) $\frac{1}{5}$
- (C) $\frac{1}{3}$
- (D) $\frac{1}{2}$
- (E) $\frac{1}{4}$



Q10 Next quarter's total sales projection represents what increase on Quarter 4's total sales for the three companies shown (to the nearest whole %)?

- (A) 6.1%
- (B) 7.2%
- (C) 6.2%
- (D) 10%
- (E) 6%

UK Operations of
Gills & Tines Ltd

Full Year ended 31 December
(£million)

	2009	2008	2007	2006
Income Sources				
Net interest	325.2	309.5	319.7	313.8
Other income	64.2	51.8	52	51.7
Fair value gains	18.0	39.9	29.7	31.1
Costs				
Admin costs	277.8	231	285.9	283.5
Loan impairment costs	15.0	57.8	6.1	5.9
Profit Before Tax	114.6	112.4	109.4	107.2

Q11 What was the average annual income across the four years shown (to the nearest million)?

- (A) £408 million
- (B) £407 million
- (C) £402 million
- (D) £403 million
- (E) £404 million

UK Operations of
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Full Year ended 31 December
(£million)

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Q12 Gills & Tines Ltd's target has been to increase Profit Before Tax by more than 2% each year. In which year, or years, has this been achieved?

- (A) 2008
- (B) 2007, 2008
- (C) 2007
- (D) 2007, 2008, 2009
- (E) None of the years shown

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Q13 Admin costs are projected to increase by a quarter in 2010 and Net Interest to increase by 2.5%, whilst all other costs and incomes are projected to remain constant. What is the projected Profit Before Tax for 2010 (in £million)?

- (A) £53.28 million
- (B) £69.45 million
- (C) £113.2 million
- (D) £144.6 million
- (E) £118.9 million

UK Operations of
Gills & Tines Ltd

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(£million)

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Other income	64.2	51.8	52	51.7
Fair value gains	18.0	39.9	29.7	31.1
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Admin costs	277.8	231	285.9	283.5
Loan impairment costs	15.0	57.8	6.1	5.9
Profit Before Tax	114.6	112.4	109.4	107.2

Q14 In which year did the combined Admin Costs and Loan Impairment Costs decrease in value?

- (A) 2006
- (B) 2007
- (C) 2008
- (D) 2009
- (E) Cannot Say

UK Operations of
Gills & Tines Ltd

Full Year ended 31 December
(£million)

	2009	2008	2007	2006
Income Sources				
Net interest	325.2	309.5	319.7	313.8
Other income	64.2	51.8	52	51.7
Fair value gains	18.0	39.9	29.7	31.1
Costs				
Admin costs	277.8	231	285.9	283.5
Loan impairment costs	15.0	57.8	6.1	5.9
Profit Before Tax	114.6	112.4	109.4	107.2

Q15 If corporation tax of 21% was applied each year to the *Profit Before Tax*, what was the average net profit across 2006-2009?

- (A) £110.9 million
- (B) £114.6 million
- (C) £115.6 million
- (D) £86.4 million
- (E) £87.6 million

Hours spent (March)					
	<i>Team A</i>	<i>Team B</i>	<i>Team C</i>	<i>Team D</i>	<i>Team E</i>
Admin tasks	33	42	25	19	21
Client work	402	370	419	434	404
Training	3	6	3	4	5
Meetings	40	72	32	18	56

Q16 What was the total number of days spent on Client work in March using the formula 1 day = 7 working hours (to the nearest whole day)?

- (A) 300 days
- (B) 290 days
- (C) 280 days
- (D) 270 days
- (E) 260 days

	Hours spent (March)				
	<i>Team A</i>	<i>Team B</i>	<i>Team C</i>	<i>Team D</i>	<i>Team E</i>
Admin tasks	33	42	25	19	21
Client work	402	370	419	434	404
Training	3	6	3	4	5
Meetings	40	72	32	18	56

Q17 If there were 3 members within Team B, what was the average number of hours spent on non-client work during March?

- (A) 37hours
- (B) 38 hours
- (C) 39 hours
- (D) 40 hours
- (E) 41 hours

	Hours spent (March)				
	<i>Team A</i>	<i>Team B</i>	<i>Team C</i>	<i>Team D</i>	<i>Team E</i>
Admin tasks	33	42	25	19	21
Client work	402	370	419	434	404
Training	3	6	3	4	5
Meetings	40	72	32	18	56

Q18 If Teams A-C bill clients at £75 per hour and less experienced Teams D and E bill clients at £55 per hour, what is the total client income for March (to the nearest £1,000)?

- (A) £127,000
- (B) £129,000
- (C) £131,000
- (D) £133,000
- (E) £135,000

	Hours spent (March)				
	<i>Team A</i>	<i>Team B</i>	<i>Team C</i>	<i>Team D</i>	<i>Team E</i>
Admin tasks	33	42	25	19	21
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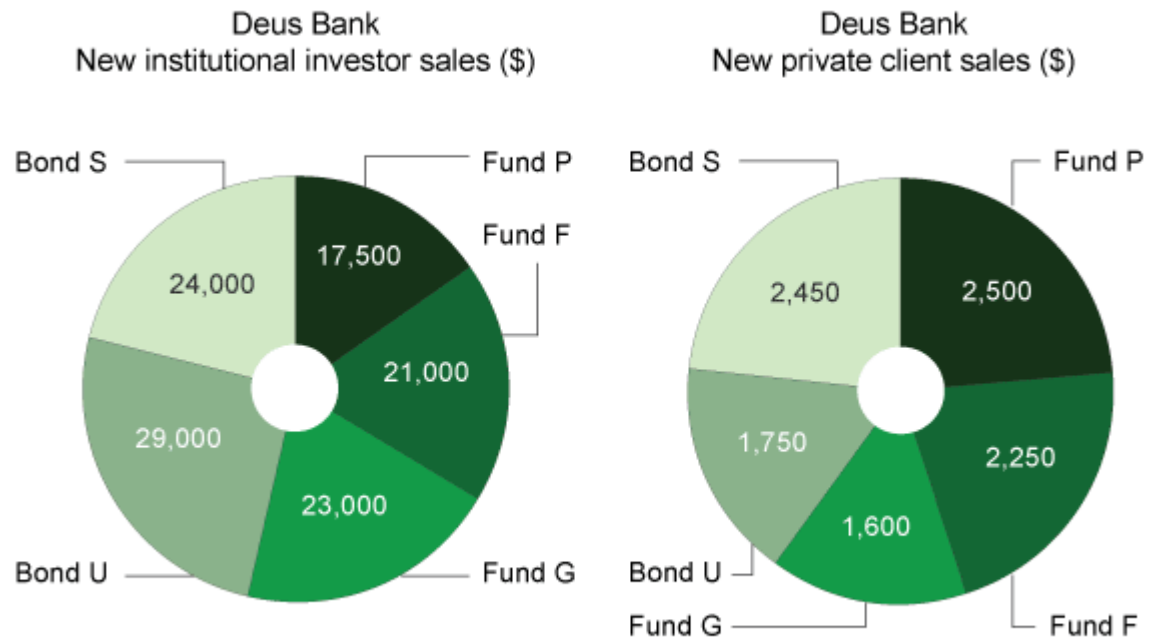
Q19 If the monthly summary shown is representative of the time typically spent each month over the course of a year (1 year = 12 months) then how many days (1 day = 8 working hours) do Teams A-E spend in meetings over the course of a year?

- (A) 327 days
- (B) 357 days
- (C) 347 days
- (D) 337 days
- (E) 367 days

	Hours spent (March)				
	<i>Team A</i>	<i>Team B</i>	<i>Team C</i>	<i>Team D</i>	<i>Team E</i>
Admin tasks	33	42	25	19	21
Client work	402	370	419	434	404
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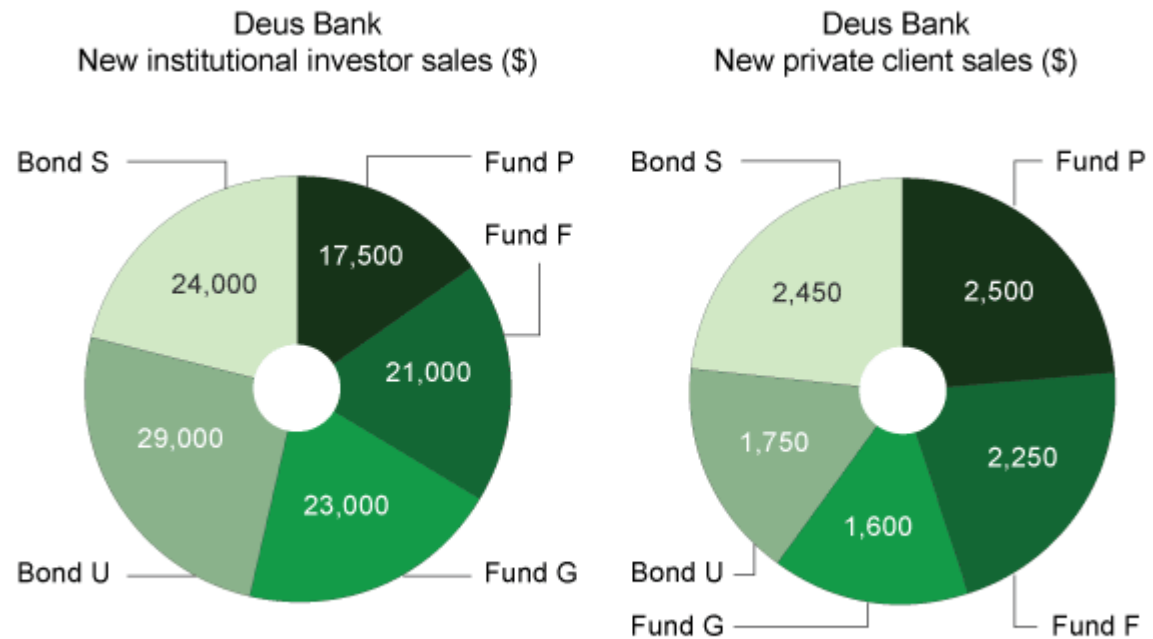
Q20 Put the teams in increasing order of total hours worked in March (starting with the lowest number of total hours worked).

- (A) D, A, C, B, E
- (B) C, B, A, E, D
- (C) D, A, C, E, B
- (D) A, D, E, C, B
- (E) A, D, C, E, B



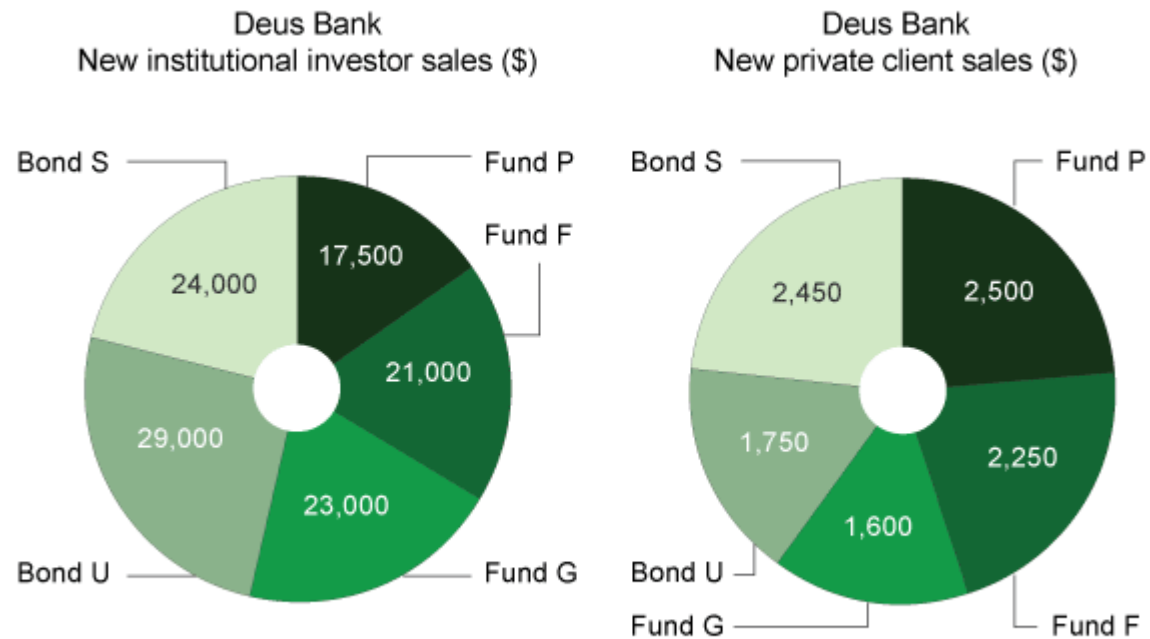
Q21 How much did Deus Bank income from new institutional investors differ from that of new private clients?

- (A) \$85,250
- (B) \$106,950
- (C) \$109,500
- (D) \$103,950
- (E) \$114,500



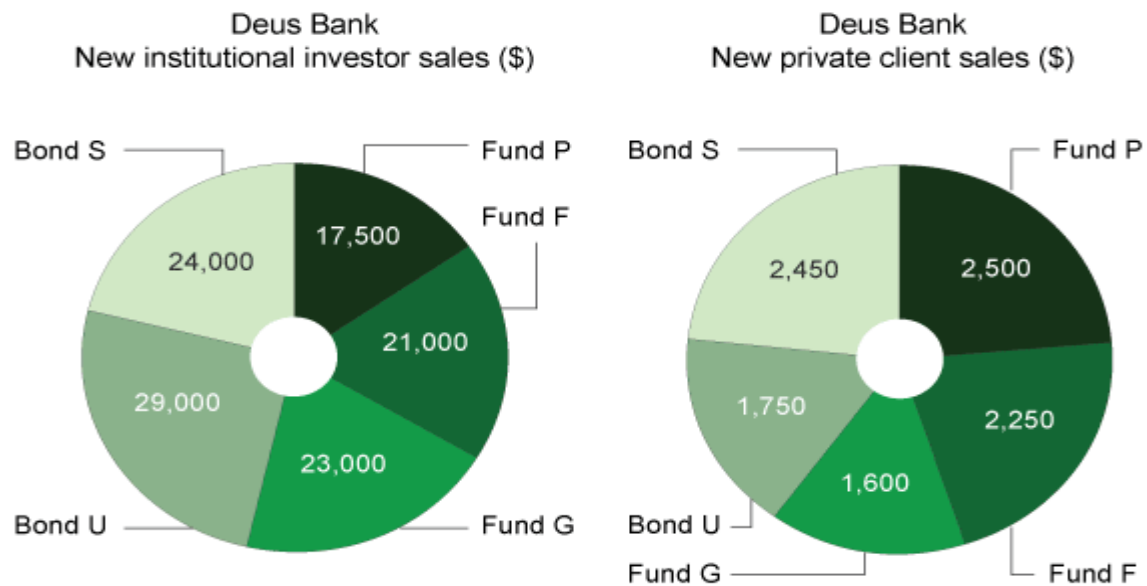
Q22 What is the ratio of Fund P's sales to new private clients compared to new institutional investors?

- (A) 1:4
- (B) 1:5
- (C) 1:6
- (D) 1:7
- (E) 1:8



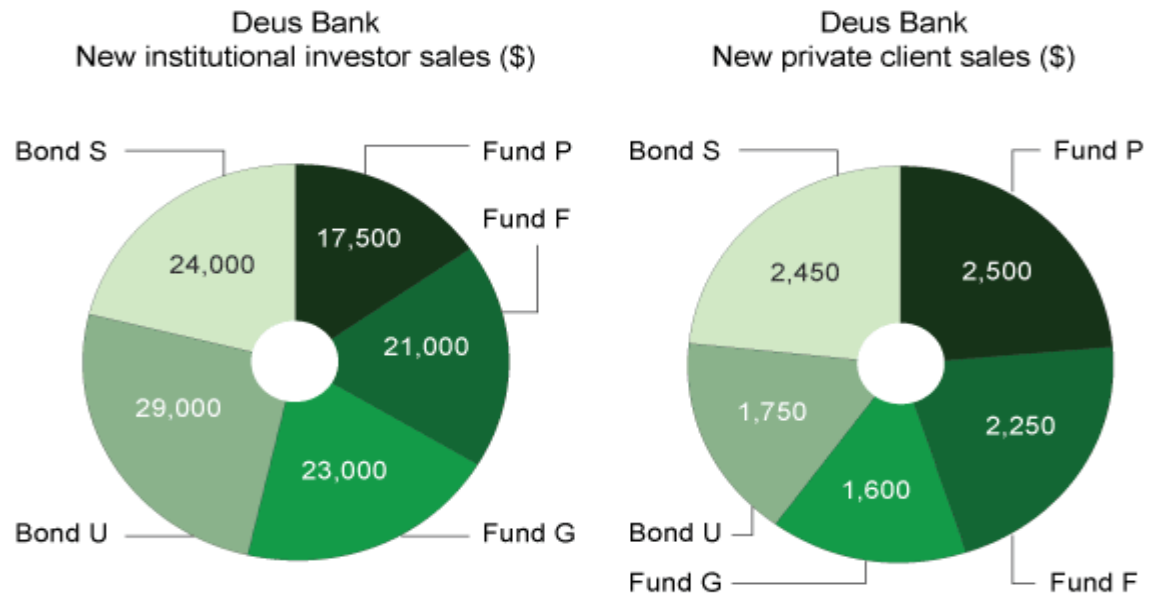
Q23 What are Deus Bank's total new private client and institutional investor Fund sales (in £s) at an exchange rate of \$1.55 to the £?

- (A) £73,871
- (B) £193,827
- (C) £80,677
- (D) £177,475
- (E) £43,774



Q24 Deus Bank pays 6% and 8% commission on Bond U and Bond S sales respectively over \$15,000. How much commission is paid for new Bond U and Bond S sales (across both private clients and institutional investors)?

- (A) \$1,750
- (B) \$2,505
- (C) \$1,560
- (D) \$2,103
- (E) \$1,861



Q25 What % of total new private client and new institutional investor sales do Bond U sales represent (to the nearest %)?

- (A) 21%
- (B) 22%
- (C) 23%
- (D) 24%
- (E) 25%

	2009 (£million)	2008 (£million)	2007 (£million)
Assets at end of financial year			
Liquid Assets	10,214	11,300	10,735
Loans Made	24,600	23,130	21,974
Derivatives	512	540	513
Fixed Assets	614	570	542
Total Assets	35,940	35,540	33,763
Liabilities at end of financial year			
Reserve Liabilities	111.6	124.0	132
Borrowings	1,389.6	1,544.0	1,650
Share Liabilities	1,958.0	1,628.0	1,780
Other Liabilities	41.8	35.0	38
Total Liabilities	3,501.0	3,331.0	3,600

Q26 What was the approximate fraction of Fixed Assets to Loans Made at the end of the financial year 2009?

- (A) 1/40
- (B) 1/45
- (C) 1/20
- (D) 1/60
- (E) 1/48

	2009 (£million)	2008 (£million)	2007 (£million)
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Total Liabilities	3,501.0	3,331.0	3,600

Q27 Which asset or assets have changed in value by more than 12% from 2007 to 2009?

- (A) Liquid Assets, Loans Made
- (B) Loans Made, Fixed Assets
- (C) Loans Made
- (D) Fixed Assets
- (E) Can't tell from data

	2009 (£million)	2008 (£million)	2007 (£million)
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Q28 In 2010, Loans Made are projected to decrease by an eighth and both Derivatives and Fixed Assets are projected to increase by 5%. If other values stay the same what will be the impact on the 2010 Total Assets value (in £million)?

- (A) 3,075.70 increase
- (B) 3,018.70 decrease
- (C) 3,000.00 decrease
- (D) 3,095.70 decrease
- (E) Can't tell from data

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Total Liabilities	3,501.0	3,331.0	3,600

Q29 Which liability or liabilities have experienced a 10% change in value between 2008 and 2009?

- (A) Reserve Liabilities
- (B) Borrowings, Reserve Liabilities
- (C) Borrowings
- (D) Other Liabilities, Borrowings
- (E) Other liabilities, Share liabilities

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Total Liabilities	3,501.0	3,331.0	3,600

Q30 What is the ratio of Reserve Liabilities (2008); Reserve Liabilities (2007)?

- (A) 132:124
- (B) 13:12
- (C) 12:13
- (D) 31:33
- (E) 31:32

End of test